

IHE-RO Technical Committee Conference Call

June 15, 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

Walter Bosch (Wash U)
Bruce Curran (VCU)
Harold Beunk (Demcon)
Jill Moton (AAPM)
Jim Percy (Elekta)
Scott Hadley (UMich)
Jon Treffert (Raysearch)
Thomas Schwere (Varian)
Bruce Rakes (Mevion)
Sanjay Bari (Elekta)
Marcus Bergman (Raysearch)
Jingjie Zhou (United Image Health)
Cheng Ni (United Image Health)
Cheng Cheng (United Image Health)
Liwu Zuo (United Image Health)
Ning Wen (United Image Health)
Yifeng Wang (United Image Health)
Zhang Wei (United Image Health)
Tucker Meyers (Epic)
Jisu (United Image Health)

Minutes

- I. Call to Order at 10:34am EDT
- II. Review Agenda
- III. Review Minutes
 - a. Minutes from the April 3-7, 2023 face-to-face TC meeting in Orlando, FL were reviewed. Motion to approve by Bruce Curran, seconded by Jim Percy; approved without objection or abstention.
- IV. DRRO Update
 - a. DRRO 1.2.1 is available in the IHE-RO Box drive: IHERO TC Share > DRRO. Profile updates include display requirements for Code Values and Code Scheme Designators and requirements for the presence of referenced image instances.
- V. TDRC Brachy Update
 - a. Update to display requirements for Treatment Termination Code.
 - b. Source Isodose Half Life
 - c. **DECISION:** The TDRC-Brachy Profile (vers. 17) was approved for Public Comment without objection on 6/15/23.

- d. **ACTION:** Jon to forward a copy of the TDRC-Brachy Profile (vers. 17) to Mary Jungers for Public Comment.

VI. BRTO-III Update

- a. Jim Percy discussed Transaction requirements for BRTO-II and BRTO-III. In particular, requirements for export of BRTO-II adherent RT Structure Sets by BRTO-III Contourers. In the short-term, this is seen as important for interoperability with existing products.
 - i. It was noted that BRTO-II Structure Sets can be safely imported by a BRTO-III Contourer.
 - ii. BRTO-III retires several capabilities, i.e., Transactions, in BRTO-II, including Resampled CT Storage, DVH Dose Storage/Retrieval.
 - iii. Discussion of including a note on safe handling of BRTO-III content (excluded internal volumes, CV UIDs, etc.) in “BRTO-II” exports. An Actor may: (a) refuse export, (b) convert (e.g., using keyhole contours), or (c) export simplified data with a warning of data loss.
 - iv. Proposal to make support for BRTO-II RT Structure Set export OPTIONAL. This would call out backward interoperability with BRTO-II Actors.
- b. Jim is continuing to work on the BRTO-III Profile draft.

VII. DICOM WG-07 Update

- a. Ion Therapy Subgroup – discussion was deferred.

VIII. 2023 TC Goals/Priorities

- a. Planning Committee presentations
 - i. XRTS – scheduled for June 20.
 - ii. DPDW – future PC meeting

IX. Adjournment at 12:02pm EDT