IHE-RO Technical Committee Conference Call
July 18, 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)
Walter Bosch (Wash U)
Jim Percy (Elekta)
Richard Voegele (Brainlab)
Harold Beunk (Demcon)
Jill Moton (AAPM)
Yili Luo (United Imaging)
Jingjie Zhou (United Imaging)
Xiao Gu (United Imaging)
Stina Svensson (Raysearch)
Wayne Keranen (Radformation)
Bruce Rakes (Mevion)
Anthony DiDonato (Mitre)
Sanjay Bari (Elekta)
Bob Pekarek (Accuray)
Bruce Curran (VCU)
Anthony Waller (Varian)

Minutes

I.   Call to Order at 10:33am EDT

II.   Review Agenda – The agenda was reviewed and adjusted.

III. Review Minutes
      a. Minutes from the July 3, 2024 TC teleconference were reviewed.
          i.   Motion to approve by David Wikler; seconded by Jim Percy; approved without objection or abstention.

IV.   Profiles Development and Testing
      a. DRRO CP (Referenced Image Series) [Stina]
          i.   **ACTION**: Stina to incorporate the updated wording from the MMRO-III CP to (new revision 1.2.4 of the DRRO Supplement.
          ii. Resources for managing IHE-RO CPs are in https://wiki.ihe.net/index.php/RO_Change_Proposals
               ACTION: David to update of this page in order to further describing the process and replace retired ftp.
      b. SMRT Sequence Diagram [Yili]
          i.   Yili Luo reviewed SMRT Sequence Diagram.drawio v1.svg in Box /IHERO TC share/SMRT (Shared Management of RT) with the group.
               1. Actors included are TDD, TMS, ROIS, OST.
               2. The profile addresses communication between the TMS and the ROIS.

3. The TMS may be local to the TDD, independent from the ROIS or grouped with another ROIS.
4. The ROIS is an RT patient chart application. It schedules treatments and synchronizes with the TMS, but does not interact directly with the TDD.
5. The TMS acts as an interface to the TDD, manages the information of the treatment sessions.
6. The TDD stores IGRT and Treatment Delivery Results in the OST. The TMS is responsible to make this information available to the ROIS by updating the ROIS with a list of these artifacts as part of a final Treatment Status Update. Retrieval of IGRT and Treatment Delivery artifacts from the OST is not currently in scope for this Profile.

ii. The role of the TMS in this Profile and its relationship to "TMS" Actors in other Profiles was discussed.
1. **ACTION**: David to frame a discussion of the relationship among "TMS" Actors in SMRT Profile and other IHE-RO Profiles.
2. **ACTION**: Yili to modify SMRT Sequence Diagram to clarify the scope of Transactions, remove TDD, include storage of artifacts to OST, retrieval of artifacts by ROIS.
3. **ACTION**: Yili to draft data model for patient information to be shared between ROIS and TMS, including content of treatment status update, and reference to treatment artifacts.

iii. The SMRT Profile remains in the concept phase. Further definition of Actors and workflow in a subcommittee is pending approval of this work item by the IHE-RO PC.

c. BRTO-II CP for (CLOSEPLANAR_XOR) [Jim]
i. Pre-read IHE_Change_Proposal-add CLOSEDPLANAR_XOR option for BRTO-II.docx in Box /IHERO TC share/BRTO-II (Add COPLANAR_XOR as CP)
ii. Jim is continuing to prepare the CP for review by TC in August.

V. Meeting was adjourned at 12:02pm EDT

VI. Next meeting: Aug. 15, 2024 at 10:30am ET (regular monthly teleconference)

Deleted: is

Commented [DW1]: This allows to distinguish between TMS and TSM

Deleted: es