

**IHE-RO Technical Committee  
Conference call  
January 16, 2014 at 1:00-2:30 PM ET**

**Technical Committee Chairs:**

**Bruce Curran, MS, ME**

**Chris Pauer, Accuray**

**IHERO Task Force Co-Chairs**

**Dick Fraass, Ph.D., FAAPM, FASTRO, FACR**

**John Buatti, MD**

**Mission Statement:** *The American Society for Radiology Oncology (ASTRO) has formed 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, American Association of Physicists in Medicine (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.*

**In Attendance:**

Amber Sims (ASTRO)  
Chris Pauer (Accuray, TC co-chair)  
Bruce Curran (TC co-chair)  
Walter Bosch (ATC)  
Bill Bennett (ATC)  
Eli Stevens (Mobius)  
Uli Busch (Varian)  
Harold Beunk (ICT)  
Jim Percy (Elekta)  
Rishabh Kapoor (UVA)  
Koua Yang (Philips)  
Rickard (RaySearch)  
Kevin O'Donnell (IHE Radiology)  
Sanjay Bari (Elekta)  
Dick Fraass (AAPM)

**Minutes:**

I. Call to Order @ 1:00pm ET

- a. Approval of Agenda
  - Added Discussion of Re-use of Transactions
  - Approved without objections
- b. Approval of minutes from December 12, 2013 Teleconference – Approved without objection.

II. Agenda Items

- a. Testing at Connectathon
  - Review of Registration Form from 2013
    - **ACTION:** Chris to send list of DCOM Actors to Amber

- 55
- Formal testing to be offered for BRTO, Image Registration (MMRO-II), ARTI-I, TDW-I, DCOM
  - Informal testing of TDW-II, QAPV, Treatment Planning-Plan Content (TPPC)
  - Add write-in section for additional informal testing
- 60
- b. Re-use of IHE Transactions (discussion with Kevin O'Donnell)
- Example: Post-Acquisition Workflow (PAWF) A transaction is assigned to multiple actors. Recently added "Use Case Roles" to identify generic Roles (e.g., Requestor) and a list of Actors (e.g., Workitem Creator, Workitem Performer) that may play the Role.
  - In IHE-RO, Structure Set Storage, e.g., *content constraints* on stored data are incorporated in Transactions. Two approaches to similar transactions with different content constraints:
    - Create different transactions for each set of content constraints with much common text.
    - Extend the original transaction in-place by (a) replacing the Interaction Diagram with a Table of Roles and Actors and (b) using sub-sections in Attribute Requirements section depending on the particular Actor that fulfills the Role. E.g., "When the Submitter is a *Contourer*..." or "When the Submitter is a *Registered Contourer*..."
    - Can borrow Transactions (e.g., from Radiology) and create sub-classes. Must make sure base Transactions remain consistent.
- 65
- 70
- 75
- c. Test Tools and Support Contract
- Test Data for TDW-II
    - **ACTION:** Chris to request RT Plan and Delivery Instruction from TMS, TDD vendors for TDW-II Profile for ICT
    - **ACTION:** Uli to request tags Table Top Longitudinal, Lateral Parameters from TMS, TDD vendors to reconcile inconsistencies between Part 3 and Part 6 sections of DICOM CP.
- 80
- d. QAPV – discussion tabled for Feb 2014 F2F meeting
- Tool review
  - CP Review
  - QAPV Changes – Issues Noted During Public Comment
- 85
- e. Review of Other Activity for IHE-RO
- State of Clinical Impact Statements – Five profiles have been assigned to Clinical Advisory Sub-committee members. They are due by end of Jan 2014.
  - Machine Characterization Group – Meeting held Jan 16<sup>th</sup>. Some progress was reported.
- 90
- f. IHE-RO Working Groups – Touch base **ACTION:** Chris to remind group leaders to begin meeting in Feb. Groups to provide updates at Feb 24-28 F2F meeting in San Diego.
- Data Transport / Archive Removal
  - CT-Sim and Relevant Use Cases
  - TMS to HIS Communication
  - DPDW (new group) – to meet Feb 4<sup>th</sup>
- 95
- 100
- g. Action review from previous meetings:
- **ACTION:** Chris to set up WG Pages on ihe-ro.org site, link from wiki.ihe.net
  - **ACTION:** Chris to revisit a getting-started-guide for UPS
  - **ACTION:** Chris to send link to QAPV Simulator to Harold – **Complete**
  - **ACTION:** Bruce to issue a call for participation in a Data Transport working group to develop Storage Transparency and Negotiation profiles – **Complete**

- 105 • **ACTION:** Bruce to issue a call for participation in a work group to evaluate the available technologies for CT-Sim and identify relevant, existing IHE profiles to address this Use Case – **Complete**
- **ACTION:** Bruce to circulate the proposal to upgrade DCOM Profile to use DICOM 2011 and new MMRO-II version of the Utilize Spatial Registration Transaction to the IHE-RO TC list for comments.
- **ACTION:** Bruce to draft proposals for symposia, suggest topics to IHE-RO PC - **Complete**
- 110 • **ACTION:** Bruce to solicit members for a Data Transport sub-group (Christof has volunteered to lead this group.) - **Complete**
- **ACTION:** Bruce to solicit participants for a working group for TMS to HIS communication | - **Complete**
- **ACTION:** Group to prepare drafts of Clinical Impact Statements
- 115 • **ACTION:** Bruce to post the revised BRTO CPs on ihe-ro.org
- **ACTION:** Chris to draft Test Tools RFP for Nov 6. - **Complete**
- **ACTION:** Uli to remove Performed Processing Parameters Sequence in the UPS Performed Procedure Sequence of TDW-II.
- **ACTION:** Uli to update TDW-II Profile to clarify Tx Record patient header data
- 120 **ACTION:** Koua to present IHE-RO suggestions to MITA RT Section Machine Characterization Group - **Complete**
- **ACTION:** Gantry Pitch Angle (300A,014A) – change Specific Rules from “If not present, shall be assumed to be nominal position, If present, may not be ignored.” to “If not present, shall be assumed to be zero. If present, shall be zero.” (Zero angle = no rotation.)
- 125 • **ACTION:** For attributes Table Top Eccentric Angle (300A,0125), Table Top Pitch Angle (300A,0140), and Table Top Roll Angle (300A,0144), change Specific Rules to “Shall be zero.”
- **ACTION:** Update planning instructions (remove V80 machine) for BRTO, ARTI, DCOM for March 1, 2014
- 130 • **ACTION:** Update Test Tool Data Sets to include plans with V120 and remove V80 plans for March 1, 2014
- **ACTION:** Christof to incorporate changes from ARTI into the TPPC draft for distribution to TC by the end of 2013. - **Complete**
- 135 • **ACTION:** Collect a list of profile-adherent, legal variations in test data
  - Feet-first plans on head-first scans (Jim Percy to supply initial data)
  - Non-square dose grids, non-uniform grid-frame offsets

h. Next Meeting

- 140 • Feb 24-28, Holiday Inn San Diego Bayside

i. Adjourned 2:25pm ET