

**IHE-RO Technical Committee
Conference Call
August 27, 2020
10:30 am – 12:00 pm EST**

**Technical Committee Chairs:
Scott Hadley, PhD, University of Michigan
Chris Pauer, Sun Nuclear
Jon Treffert, RaySearch, Incoming Chair**

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.*

Attendees

Chris Pauer
Scott Hadley
Walter Bosch
Bob Pekarek
Stefan Boman
Bruce Curran
Richard Voegele
Thomas Schwere
Harold Beunk
Deepti Valliappan
Rok Stefanic
Jon Treffert
John Stamm
Rickard Holmberg
Jim Percy
Rishabh Kapoor
Sanjay Bari
David Wikler
Bruce Rakes
Tucker Meyers
Jill Moton

Minutes

- I. Call to Order at 10:32am EDT. A quorum was present.
- II. Review Agenda
- III. Minutes Review – Minutes of the July 15-17, 2020 TC Meeting were reviewed and approved without objection. (motion:Scott Hadley, second: Bob Pekarek)
- IV. Other committee updates.

- a. PC and SC.
 - i. Discussion of XRTS progress. John Stamm (EPIC) reported on updates in XRTS terminology and use of FHIR for this profile.
 - b. IHE Domain Committee
 - i. TDW-II Revision 19 to be published for Trial Implementation.
 - ii. Some concern were express by the DC regarding glossary items in XRTS.
- V. C-GET: Should we add C-GET as an option in TDW-II?
- a. Thomas Schwere presented a proposal to add C-GET to TDW-II for retrieval of DICOM instances. (Powerpoint sent to TC.)
 - i. C-MOVE/C-STORE: two-way communication (2 associations), requires configuration to allow C-STORE, 4 DICOM end points/AE titles → Administrative Burden
 - ii. C-GET is simpler: uses the same connection for response.
 - iii. Using secure C-GET instead of C-MOVE/C-STORE reduces administrative effort (certificates) dramatically.
 - b. Proposal: Extend the Test Tools (reference implementation), perform informal testing
 - c. Discussion
 - i. C-GET appears to make retrieval more straightforward.
 - ii. Some concern expressed about the availability of C-GET implementations.
 - iii. Check IHE-ITI TF for Profiles that could be leveraged.
 - d. Two concerns: (a) C-GET vs. C-MOVE/C-STORE and (b) secure transport (TLS).
 - i. Are there authentication issues with C-GET? Restrict to secure environment?
 - ii. Consideration of bundling use of C-GET and Secure DICOM.
 - iii. TC members are asked to review their DICOM transport plans for further discussion.
- VI. Secure DICOM/TLS: What can/should we do in IHE-RO context?
- a. Extend the test tools to support secure DICOM
 - b. Informal testing at Connectathon
 - c. **ACTION 200801**: Chris Pauer to invite Lawrence Tarbox (DSC) to discuss secure DICOM transport with the TC.
- VII. Connectathon Updates
- a. Testing environment
 - i. VPN with fixed IP addresses – Netgate VPN Concentrator appliance (contracts signed 8/26, 4-6 week installation)
 - ii. Test Server – cloud server to run Brainlab DICOM Proxy, Test Tools
 - iii. Screen sharing (VNC), teleconferencing, shared documents
 - b. Informal test event – Nov 16-20, 2020
 - i. Assess process and resources needed to test
 - ii. BRTO-II and TDW-II Profiles (include all possible vendors)
 - iii. Each participant to undergo pre-test checkout: VPN, VNC, teleconference
 - c. Volunteers for initial smoke test?
 - i. Chris - SunCheck
 - ii. Thomas – Varian
 - iii. Richard – Brainlab DICOM Proxy
- VIII. XRTS Update
- a. Rishabh Kapoor reported on the HIS group meeting (8/26/20)
 - i. Growing consensus to focus on use of FHIR.
 - ii. Additional follow-up is needed with the Mitre group.
 - b. Change from HL7 to FHIR
 - i. The current data model is basically sound.
 - ii. Some work is needed to map FHIR resources onto this data model.
 - iii. More clarity is needed regarding Use Case(s).
 - c. Chris posted Public comment responses on XRTS Profile.
 - d. **ACTION 200802**: John Stamm to categorize public comment responses to XRTS.

- IX. Other Updates
 - a. Product Registry – tabled until next meeting.
 - b. ROTH Clinical Impact Statement – Scott Hadley has updated the ROTH CIS (emailed to the TC).
- X. October Meeting Agenda – to be reviewed in September
- XI. Meeting was adjourned at 12:00pm EDT.