

IHE-RO Technical Committee
Face-to-Face
Oct 22, 2018 at 8:30-12:00 CET
AAPM HQ
Alexandria, VA

Technical Committee Chairs:
Scott Hadley, PhD, University of Michigan
Chris Pauer, Sun Nuclear

IHERO Task Force Co-Chairs
Bruce Curran, MS, ME, FAAPM, FACMP, FACR, AAPM / VCU Health
Bridget Koontz, MD

Mission Statement: *The American Society for Radiation 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.*

Agenda

A. Call to Order at 8:30 am EDT

1. Quorum?
2. Review topics

B. Business

1. Review of connectathon results
 - a. BRTO-II - 8 Actors, 4 Vendors passed
 - b. MMRO-III – 9 Actors, 3 Vendors passed (6 passed with single test partners)
 - c. TPPC – 31 Producers, 28 Consumers passed (36 passed with single test partners)
2. Improved Test Tools (Content Validator)
 - a. Participant engagement (communication of issues to ICT)
 - b. ICT responsiveness
3. Profile Issues raised during testing
 - a. Minor bug in TPPC regarding indentation of an attribute Application Aperture Shape (300A,0432)
 - b. MMRO-III "The *SECOND* FoR will define the spatial reg from the specified FoR to the registered FoR" (MMROIII_SRM_3)
 - c. TPPC requires Referenced Dose Reference UID (300A,0083) Type 3 to be present (R+*). This attribute was added in CP 1659 to the 2017A edition of the standard. It is not present in the referenced 2015A edition.
 - d. BRTO-II Accession Number is in the Copy Table, but not in the General Study Module Table 7.4.1.2.1
4. Test Tool Issues raised during testing

- a. Wrong rule for RT Dose IOD - Instance Number for RT Dose IOD is completely useless. We should add a note in 7.4.13.3.1 “RT Dose Module Base Content” of BRTO-II that Instance Number for RT Dose Module is actually Type 3 (overruling the definition in the General Image Module). Furthermore the error reported in the IHE-RO Content Validator regarding the Instance Number in RT Dose IOD should be ignored.
- b. IHE-RO TC recently removed Source To Surface Distance (300A,0130) and Source To External Contour Distance (300A,0132) as required attributes from the TPPC profile. This change is not yet incorporated into the IHE-RO Content Validator as of 8/22/18.
- c. Content validator False Positive: CV reports SourceToExternalContourDistance (300A,0132) missing when Patient Setup Technique is FIXED_SSD. This has been removed from the Profile.

5. Test Data Issues raised during testing

- a. Error in TPPC18A03xx – missing ROI Interpreted type for one or more structures
- b. Error in TPPC18A04xx – empty Study ID attribute in CT – copied to Plan – reported as error in Content Validation
- c. Test data do not include a CT Series with non-uniform slice thickness/spacing for testing image re-sampling

6. Other Issues raised during testing

- a. Pinnacle does not accept Patient Names with embedded ".". BRTO18A11AC (with RT Structure Set created by Accuray has been edited as BRTO18A11AC2 to remove the period (".") from the Patient's Name attribute.
- b. BRTO18A12VI structure set appears to have off-slice contours
- c. Brainlab does create an SRO for MMRO dataset(7) which is in the same FOR. The exported SRO has the same FOR for primary and secondary datasets.
- d. The use of series description / content description (0070,0081) on SRO. Need for improved management/query/retrieval. of SRO instances.

7. Suggestions for improving the test process

C. Meeting adjourned at 12:00 pm EDT 10/22/18