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| **Reported by (Name):** | **Yulong Yan, Ph.D.** |
| **Organization:**  | Digital Imaging and Communications in Medicine |
| **Position Title:** | WG07 RT Representative |
| **Activity:** | WG07 Virtual Meeting  |
| **Meeting Dates:** | 8/30/22, 8/31/22, 9/6/22, 9/7/22 |
| **Meeting Location:** | **Virtual meeting on Teams** |
| **Payment $:** | **0** |
| **Reasons for Attending or not Attending** | 1. Work on CPs
2. Hybrid RT Plan
3. IHE Presentation
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| **Issues from Previous Meetings or Year:** | Updated reports were presented as needed/available:* WG-07 Brachytherapy Subgroup - work on plan content continues for IHE-RO TPPC-Brachy Profile
* WG-07 Ion Subgroup - IHE-RO TDRC Profile has been accepted for public comment. Decision not to seek advice regarding inclusion of (X-ray) setup beams in RT Ion Plan and RT Ion Beams Treatment Record. CP for consideration by WG-07
* WG-07 Motion Management Subgroup
* IHE-RO
	+ Discussion of hybrid 1st/2nd Gen RT
	+ TDOR is out for public comment.
	+ Work to manage test data in Gazelle
	+ Connectathon is scheduled for November 2022.
	+ Consistent dose (dose tracking, dose reference) and prescription module was discussed.
* IEC – Jim Percy reported on IEC activities
	+ Upcoming IEC meeting in San Francisco in Nov 2022
	+ IEC 62274 R&V standard 62274 – need to decide whether to revise or replace
* WG-28 – September 14-16, 2022 meeting in Trento, Italy (Bruce Curran to attend virtually)
* Other Subgroup reports as needed.
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| **General Description of Activities of the Organization and/or Meeting:** | **Ion Subgroup**Discrepancy between setup beam imaging and recording.* The RT Ion Beams Treatment Record records only treatment delivery parameters from the delivery machine, not the imaging device.
* Philosophical question regarding the use and content of setup beams. Setup beams were not designed to convey imaging parameters. Imaging parameters are volatile, I.e., may change from day to day. Supp 213 addresses this need.
* Use cases for recording setup imaging were discussed.
	+ Actual repositioning information (patient shifts) are not recorded.
	+ Imaging and position may not be directly tied to a treatment beam.
	+ The BDI conveys table movement instructions. However, this is not a record of actual table movements.
	+ The DICOM treatment record records the table position at the start of beam delivery. DICOM does not currently support (continuous) recording of positioning events.
* Further discussion of using the treatment record to record setup information.
	+ It is important to distinguish between recording of beam delivery and recording of setup events.
	+ Extending the RT (Ion) Beams Treatment Record (new Module?) to record setup (and other) events was discussed.
	+ Action: Bruce and David (and any others) to draft requirements for Session Events Capture for discussion Sept 6-7. Document in Teams / Discussions / Session Events Capture

**cp\_RT215 RT ROI Interpreted Type Clean Up**Clean up of CP 2182 – could also be done via CP RT 216. Removes outdated text referencing ROI Observation Label. Decision: Accepted for reading with WG-06.**cp\_RT216 Extend RT Structure Set Definition**Proposal based on the discussions for an extension of ROI meta information. Requires input from WG-07 and thus more work. **cp\_RT217 Add Gen 2 Termination Codes to Gen 1 Treatment Records**Bruce Rakes presented a CP drafted by the Ion subgroup.Treatment Termination Code (3008,002B) has a VR of SH, but has no real meaning.**CP-RT214 4D Imaging Support**Work continues.Kari reported on discussions with Till Hoenig (WG-21). Several options for including Respiratory Phase information were discussed.Minimum requirements for RT are (a) a way to combine instances for one phase together and (b) an Index to relate the order of phases.**CPs with WG-06****CP-2185 Extend use of Treatment Session UID**Rework based on Tx Session UID should not reside in Study Module. **CP-2203 Add References between 1st and 2nd Gen Rad IODs**Uli reviewed comments received for this CP, currently in letter ballot.**CP-2220 Differentiate Geometric Types of CT Imaging Sources**State? Will WG-2/21 look at this?Shayna will make sure CP-2220 is on the agenda for the next WG-21 meeting.**Hybrid Discussions Overview****RT Plan**CP on reference 1st <--> 2nd Gen (2203)CP on introducing the new BLD macro in the 1st Gen (2229)Hybrid Plan document – Uli* Renaming RT Prescription to RT Dose Reference/Tracking
* New Module called RT Prescription Overview containing all “prescription items” and to address IEC requirements and adding a reference to an RT Physician Intent Instance.

Topics for this meeting* Discuss introducing Tomo in 1st Gen RT Plan – have a solution
* Discuss how to handle Robotic and lay out a path
* Discuss how to handle Multi-Source plans and lay out a path
* Discuss us of CV UID in RT Plan
* Prepare CP to discuss the use of the RT Treatment Preparation IOD (e.g.., enable linking to 1st Gen) - Uli
* Prepare CP to discuss referencing multiple RTSS from Plan – Christof

Discussion of support for new (non-C-arm) machines. * Separate (a) public information for everyone (e.g., TMS, QA applications) and (b) private information that is used by TDD alone.
	+ Similar public/private representation for treatment record
	+ Dose tracking does not require access to delivery details, but requires indices to Control Points.
	+ Support for third party device integration

Suggestion for white paper on how 1st Gen RT Plan could be adapted for new machines.* RT Plan extensions folder has been created in Teams: [RT Plan Extension in Wiki](https://teams.microsoft.com/l/entity/com.microsoft.teamspace.tab.wiki/tab%3A%3Af2174e6e-1afd-4c69-ae54-c3ca22b42fc8?context=%7B%22subEntityId%22%3A%22%7B%5C%22pageId%5C%22%3A6%2C%5C%22origin%5C%22%3A2%7D%22%2C%22channelId%22%3A%2219%3A54ca516fe4aa43ebb3c4b65ca3bbca83%40thread.tacv2%22%7D&tenantId=8e084e52-e727-4a48-a4dd-b977a442f442)
* Further discussion 9/7/22
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| **Issues for AAPM:** | **NONE** |
| **Budget Request ($):** | **0** |