Minutes

Discrete Positioning and Delivery Workflow (DPDW)

Conference Call

August 25, 2020
10:30am – 11:35am EST

DPDW Subgroup Chair:
Thomas Schwere, Varian Medical Systems
(thomas.schwere@varian.com)

IHERO Task Force Co-Chairs
Bruce Curran, MEng, FAAPM, FACMP, FACR
Bridget Koontz, 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:
Jill Moton (AAPM)
Thomas Schwere (Varian)
Bob Pekarek (Accuray)
Harold Beunk (ICT)
Jon Treffert (RaySearch)
Bruce Rakes (Mevion)
Sanjay Bari (Elekta)

1 Call to Order

The meeting was started at 10:30am EST.

2 TDW Offline Recording

2.1. Dedicated UPS "Record Treatment Session"

- As a refresher, Thomas walked through the sequence diagram of the “Deferred Recording” use case.
- Lot of discussions about the use case itself: What’s the value? Is this a real-world scenario? Etc.
- In case the TDD can fully recover after a crash (including UPS information as well as treatment records), the TDD can close the session along existing TDW-II workflow.
- What percentage should be set as Procedure Step Progress (0074,1004) in the deferred recording scenario? The TDD may set this to a meaningful value even if some treatment records are (temporarily) not available. The TDD may also decide to not provide a value in case it doesn’t have enough information (note that Procedure Step Progress is optional in case of a CANCELED UPS). In any case the TMS shall use CANCELED together with Discontinuation Reason Code "Deferred Recording" as trigger to identify the deferred recording scenario.
- The main reason for closing the session in the deferred recording scenario is to notify the TMS that something weird happened and to let the TMS know about the intention to defer the recording of the session artifacts. The TMS may also provide an appropriate indication on the UI when showing the session results.
- The term “Deferred Recording” as Discontinuation Reason Code may not always be fully correct as the procedure to recover the treatment records may fail as well. It’s more an intention to defer the recording. That seems to be a minor issue though.
- The group preferred to use a dedicated “Record Treatment Session” UPS instead of the KOS storage as a trigger to initiate the recording/reconciliation on the TMS:
    - Upon recovery of the treatment records the TDD would create the UPS on the TMS.
    - The TDD should only cleanup its local database once the TMS successfully performed that UPS. Therefore, the TDD has to subscribe for N-EVENT-REPORTS on the TMS for that UPS.
    - Implementing the UPS subscription model comes together with additional effort/complexity. Ideally, this model can be leveraged for other scenarios as well (like recording of a treatment session that was delivered from a cache while the TMS was unavailable).
    - Thomas will update the sequence diagram accordingly.
- (For unmanaged workflows (not in scope of TDW), however, a KOS as a session container may be useful as well.)

Decisions

- Use dedicated “Record Treatment Session” UPS instead of KOS storage (issued by TDD, performed by TMS)
- KOS is not needed in a managed workflow

3 Adjournment

The meeting was adjourned at 11:35am EST.

Appendix A: Administration and Process Information

Documents are published at the following locations. If you have problems in accessing the document, please contact the Chair (thomas.schwere@varian.com).

Process of Authoring:

Steps:

1. Download a local copy of the document from locations below
2. Open this copy and remove all change bars
3. Ensure, that Changes Bars are switched on
4. **Make your changes**
5. Provide the updated version to the Chair

Location of Documents:

DPDW Subgroup Minutes

http://wiki.ihe.net/index.php?title=RO_DPDW_WorkingGroup

DPDW Profile

The DPDW Profile is an IHE-RO document.

The current version is available in the IHE-RO Org Wiki:

http://www.ihe-ro.org/

Please find the current document under this page:

http://www.ihe-ro.org/doku.php?id=doc:profiles

Supp 160

DICOM Supplement 160 (Patient Positioning and Workflow) in s DICOM WG-07 document.

The current version is available at the DICOM ftp server:

ftp://d9-workgrps:goimagego@medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/WG07/Sup/Sup160_PatientPositioningAndWorkflow

Mailing List:

The mailing list for the DPDW subgroup is:

2020.iherodpdw@aapm.org