DICOM Export

The ElectronRT App allows for the export of patient and plan information in the DICOM file format. If the treatment plan is not approved, authorization from a qualified user is required to enable export.

The user can choose to export the CT Images, RT Structure Set, RT Plan, and RT Dose as DICOM files. There are a few considerations to keep in mind for each DICOM file that is exported from decimal eRT:

- **CT Images:**
  - The ElectronRT App allows CT Image export for the convenience of end users only. This application does not modify CT Images in any way and the exported CT Image files are exact copies of those imported into the app for the patient course at hand.
- **Structure Set:**
  - Exported RT Structure Sets will be an exact copy of the imported Structure Set data, with a few notable exceptions:
    - The exported RT Structure Set will include override material information for any structures to which the user has applied density overrides in the treatment plan.
    - Structure(s) will be added to the Structure Set for any bolus that are present in beams within the treatment plan.
    - If the user changes the External structure in the Course, that structure will be marked as the External in the exported RT Structure Set.
- **RT Dose:**
  - The computed dose can be exported as a single Plan level RT Dose file as well as separate RT Dose files for each treatment Beam.

For unapproved plans, new UIDs will be generated each time the plan is changed and DICOM files are exported. For approved plans, the DICOM UIDs are fixed and will always be the same each time the DICOM file is exported.

Local Export

The ElectronRT App allows the export of DICOM files to a local directory. A default DICOM export directory can be set in the Site Configuration DICOM Settings.

Server Export

The app also allows the export of DICOM files to a DICOM server (AE title). When exporting to a DICOM server, the user can choose to export to a server defined in the Site Configuration DICOM Settings or to a custom server.
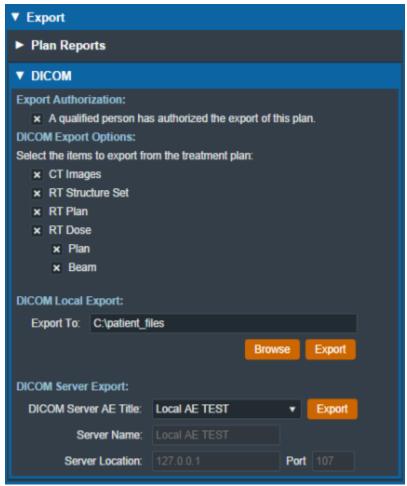
Fig. 1: DICOM Export UI