

# 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 for this feature.

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 exported CT Image DICOM files are the exact same as the ones used to create the patient within the app.
- **Structure Set:**
  - If the user has applied density overrides to any of the structures in the treatment plan, the exported RT Structure Set will include override material information for these structures.
  - Structure(s) will be added to the Structure Set for any beams that contain a bolus
- **RT Dose:**
  - The exported RT Dose can be exported as a single Plan level dose file as well as a separate file for each Beam dose.

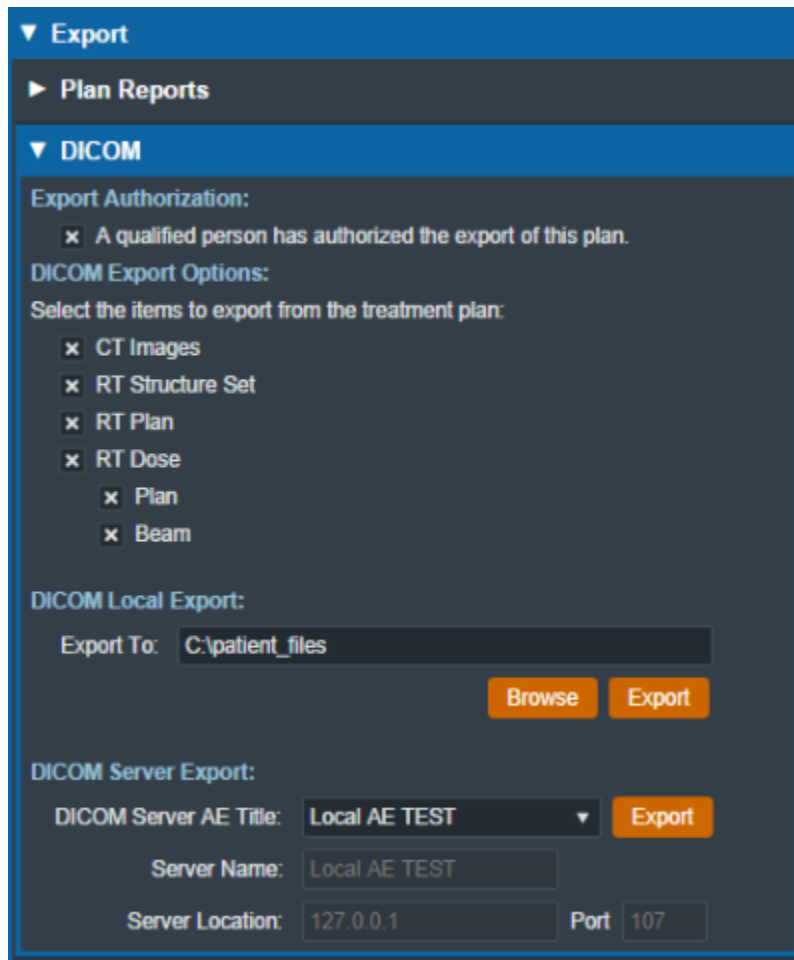
For unapproved plans, new UIDs will be generated each time the plan is changed and DICOM files are exported. For approved plans, the DICOM UIDs will never change and always be the same each time a DICOM file is exported.

## 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.



The screenshot shows a software interface for DICOM export. It is organized into a sidebar with 'Export' and 'Plan Reports' sections. The main area is titled 'DICOM' and contains the following sections:

- Export Authorization:** A message indicating that a qualified person has authorized the export of this plan.
- DICOM Export Options:** A section titled 'Select the items to export from the treatment plan:' with a list of items, each with a checked checkbox:
  - CT Images
  - RT Structure Set
  - RT Plan
  - RT Dose
    - Plan
    - Beam
- DICOM Local Export:** A section with an 'Export To:' text box containing 'C:\patient\_files', a 'Browse' button, and an 'Export' button.
- DICOM Server Export:** A section with a 'DICOM Server AE Title:' dropdown menu set to 'Local AE TEST' and an 'Export' button. Below this are text boxes for 'Server Name:' (containing 'Local AE TEST'), 'Server Location:' (containing '127.0.0.1'), and 'Port:' (containing '107').

Fig. 1: DICOM Export UI

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