

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.

Note: The Export block will be disabled if no machine or CT curve exists in the site configuration.

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.

The screenshot displays the DICOM Export interface. It is organized into sections: 'Export' (with a dropdown arrow), 'Plan Reports' (with a right-pointing arrow), and 'DICOM' (with a dropdown arrow). Under 'DICOM', there is an 'Export Authorization' section with a checkmark and the text 'A qualified person has authorized the export of this plan.' Below this is the 'DICOM Export Options' section, which includes the instruction 'Select the items to export from the treatment plan:' followed by a list of items with checkmarks: 'CT Images', 'RT Structure Set', 'RT Plan', 'RT Dose', 'Plan', and 'Beam'. The 'DICOM Local Export' section features an 'Export To:' label and a text input field containing 'C:\patient_files', with 'Browse' and 'Export' buttons to its right. The 'DICOM Server Export' section includes a 'DICOM Server AE Title:' label and a dropdown menu set to 'Local AE TEST' with an 'Export' button, a 'Server Name:' label and a text input field containing 'Local AE TEST', and a 'Server Location:' label with a text input field containing '127.0.0.1' and a 'Port' label with a text input field containing '107'.

Fig. 1: DICOM Export UI

From:
<http://apps.dotdecimal.com/> - **decimal App Documentation**

Permanent link:
http://apps.dotdecimal.com/doku.php?id=electronrt:userguide:tutorials:dicom_export

Last update: **2021/07/29 18:28**

