

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 exported CT Image DICOM files are the exact same as the ones used to create the patient withing 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 bolus that are present in beams within the treatment plan.
- **RT Dose:**
 - The exported The 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 displays the 'Export' menu with 'Plan Reports' expanded to show 'DICOM'. 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 a heading 'Select the items to export from the treatment plan:' followed by a list of items with checkboxes: 'CT Images', 'RT Structure Set', 'RT Plan', 'RT Dose', 'Plan', and 'Beam'. The 'DICOM Local Export' section features an 'Export To:' field with the value 'C:\patient_files', a 'Browse' button, and an 'Export' button. The 'DICOM Server Export' section includes a 'DICOM Server AE Title:' dropdown menu set to 'Local AE TEST' with an 'Export' button, a 'Server Name:' field with the value 'Local AE TEST', and a 'Server Location:' field with the value '127.0.0.1' and a 'Port' field with the value '107'.

Fig. 1: DICOM Export UI

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

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http://apps.dotdecimal.com/doku.php?id=electronrt:userguide:tutorials:dicom_export&rev=1607092140

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