In order to begin planning in the decimal ElectronRT App you must first have patient imaging captured and structure geometries defined. This information is brought in the ElectronRT App by importing DICOM CT and Structure Set files.

Note: DICOM patient import will be disabled until the organization configuration has been completed.

Default Import Directory

The default import directory can be set in the app settings by navigating to View \rightarrow Settings. This directory will always be the default directory when importing a patient. Users can then further refine the import folder as needed starting from this default level.

Importing a New Patient

The ElectronRT application has two methods for importing new DICOM patients: 1) Manually browsing for local files and 2) setting up a DICOM receiver to accept and import DICOM patients. Refer to each options section below for details.

Local File Import

If you have a set of Ct Images and structures you can import them directly into a new patient through the "Import Patients" menu.

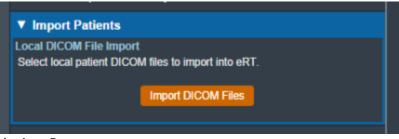


Fig. 1: Import in the Main App Page

Select file(s) for import					
				Add Folder	Add Files
Use recursive folder :	search				
	A No valid DICO	W files are present in t	the selected folder		

Fig. 2: Import Directory Input

The Import DICOM Files option allows you to either browse your computer or copy the path to the folder that contains the CT images and structures you wish to import. The following options are available for browsing for local files:

- Add Folder: Browse for an entire folder of DICOM files to import into a patient
 - Use recursive folder search: This option can be selected prior to adding a folder to reclusively search and add all DICOM files within the selected folder and all sub-folders.
- Add Files: Browse for individual DICOM file(s) to import into a patient. Note: this option does not make use of the recursive folder search option.

A list of selected DICOM files for import will be displayed and you can choose to add more files for the selected patient or remove any files as desired.

Refer to the Processing Imports section once files have been selected to import.

DICOM Receiver Imports

Users can install and configure the ElectronRT DICOM Receiver to receive and save patients for seamless importing into the ElectronRT application.

Users can then specify a DICOM Import Monitoring Directory within the Site Configuration's DICOM Settings block that corresponds to the storage_location field set for the ElectronRT DICOM Receiver. Once the receiver and monitoring directory have been setup and configured, and DICOM patients sent to the ElectronRT DICOM Receiver will automatically show up within the Import Patients display as shown in figure 3.

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sectoral an			Bankel?	demande (1964), 1346
 Paleni Isarch 	**	Name -	Rylowi Data 🔹	
Search for pallerits in the surface.		inald_blick_series		-
cocontractioned in the segment of the second segment on the second second second second second second second se				-
Intel DODB FILM	ABOTE	Asser ABICIN		-
Organization Configuration Ordinary Dis. Notices and Address Data.		Fideel, 198		-

Fig. 3: DICOM Receiver Patients

Each patient received from the ElectronRT DICOM Receiver can be imported or removed from within the eRT Import Patient block.

Refer to the Processing Imports section once a patient has been selected to import.

Processing Imports

Then the import will process:

Import DI	COM Files	
	Importing DICOM Files. Please wait	
≺		
	Step: Writing Course data to disk (Step 2 of 2)	
		Cancel

Fig. 4: Import Loading screen

If there are no Errors while importing you will be taken to a confirmation page for your import.

Patient: ECT Nose			
MEN: Nose			
The following churchurgie) have	have eligened as they are a	at deced elemen	
The following structure(s) have	been skipped as they are n	ot closed planar.	
- POL2			
- POI_3			
- POI_4			
- Lt Parolid			

Fig. 5: Import Finalized

If there are errors please refer to the Common Errors section below.

Common Errors

Missing/Undefined External Structure

If the imported DICOM Structure Set does not have a structure flagged as *RT ROI Interpreted Type* (3006,00A4) EXTERNAL you will be directed to specify the external patient structure before the import resumes. The patient external structure must be set to the defining boundary of the patient's outer surface, and not a rind skin structure.

Note: You will be warned if the selected external structure is not the structure with the largest volume. This is to prevent incorrect structure selection. For example, when a 'External' and 'Skin' structure both exist, and the 'Skin' structure is a rind, if the user selects the 'Skin' structure, the warning will state the 'External' structure has a larger volume, since that's the correct representation of the patient structure needed for the ElectronRT App.

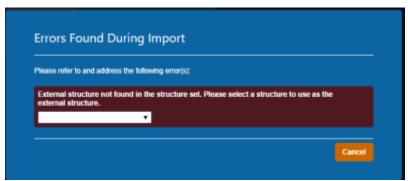


Fig. 6: Missing External Error

The drop down menu will have a list of the structures in the imported set. You will be able to select one as the external for this course then confirm your choice by pressing "Set External".

Please refer to and address the following error(s):		
External structure ne	of found in the structure set. Please select a structure to use	as the
external structure.		
External	 Set External 	

Fig. 7: Set External Dialog

Structures Skipped During Import

Structures can be skipped during Structure Set import if the structures meet the following criteria:

• Non closed planar (e.g.: points or structures where slices are not fully closed)

Structures that are skipped will be denoted at the end of the DICOM import as shown in figure 8.

Patient: ECT Nose				
MRN: Nose				
The following structure(s) have been structure to be a structure in the structure in the structure in the structure is a structure in the structure in the structure is a structure in the structure in the structure is a structure in the structure in the structure is a structure in the structure in the structure in the structure is a structure in the structure in	an ckinnod oc thou i	are not closed play)ar	
- POI 2	al skipped as uley a	are not dooed plai	Hdl.	
- POL 3				
- POL4				
- Lt Parolid				

Fig. 8: Import Finalized

Importing an Existing Patient

If the files you have selected to import coincide with the MRN of a patient that already exists in the app you will receive this error.

rrors Found Duri	ing Import
lease refer to and address the following error(s):	
Patient MRN already exists	in database.
Patient MRN already exists Series UID found in existing	: in database. g course. Please select an option for import.
Series UID found in existing	

Fig. 9: Existing Patient Error

You have three options provided to resolve the error:

- Import to a New Course
- Re-Import Structures
- Do Nothing

Import to a New Course

Importing to a new course will simply complete the import with the app creating a new course for this patient using the new imported files (note this option will not affect any existing courses or plans for the patient).

lease refer to and address the f	ollowing error(s):	
Patient MRN already exists in	database.	
Series UID found in existing c	ourse. Please select an option for in	nport.
Import To A New Course	•	
Imported CT images and strue	cture set will be added to a new cou	rse. OK

Fig. 10: Importing as a New Course

Re-import Structures

Re-Importing structures can be used if your goal is to update or add structures to an existing patient Course.

Please refer to and address the following error(s):	
Patient MRN already exists in database. Series UID found in existing course. Please select an option for import. Reimport Structures	
Errors Found During Import	
Please refer to and address the following error(s):	
Structures will be re-imported into the existing course.	ок

Fig. 11: Re-Import Structures

After selecting this option, you will be presented with a list of the structures in the import.

For each you may select one of three options:

- **Do not Re-import**: Skips this structure for the re import.
- **Replace existing geometry**: Replaces the existing structure in the current Course with the imported one.
- **Import as new structure**: Imports the structure to the Course as a new structure while not affecting the existing one and allows the user to specify a new name for the new structure. If the structure does not exist currently it creates it as normal.

Please refer to and address the following en	ror(s):			
Patient MRN already exists in database. Series UID found in existing course. Please select an option for import. ReImport Structures				
Errors Found During Import				
Please refer to and address the following en	ror(s):			
PTV	Do Not Reimport 🔹			
PTV 6840	Do Not Reimport 🔹			
Rt Parotid	Do Not Reimport 🔹			
Cord	Do Not Reimport 🔹			
Cord+5	Do Not Reimport 🔹			
Ant avoid	Do Not Reimport 🔹			
Post avoid	Do Not Reimport 🔹			
Rt Eye	Do Not Reimport 🔹			
Lt Eye	Do Not Reimport 🔹			
External	Do Not Reimport 🔹			
BOLUS 1CM	Do Not Reimport			

Fig. 12: Re-Importing Structure List

Once you have made your decision for each structure you must select "Re-Import Structures" to finalize your changes.

	Do Not Reimport 🔹
90 % (Trial_1)_1	Replace Existing Geometry 🔹
Structure: 90 % (Trial_1)_1	
Electron Bolus	Replace Existing Geometry 🔹
Structure: Electron Bolus	
	Re-Import Structures
	Cance

Fig. 13: Finalize Re-Import

Do Nothing

This is the simplest action, selecting "Do Nothing" will cancel your import and return you to the main menu.

Please refer to and address the following error(s):		
Patient MRN already	exists in database.	
Series UID found in	existing course. Please select an option for import.	
Do Nothing	•	
mport will be canceled		ОК

Fig. 14: Do Nothing

