

Organization Configuration

The ElectronRT App allows for users with certain permissions to view and edit organization level configuration settings. The Organization Configuration block is located in the main page of the app and is only visible to users with Physics or higher level permissions.

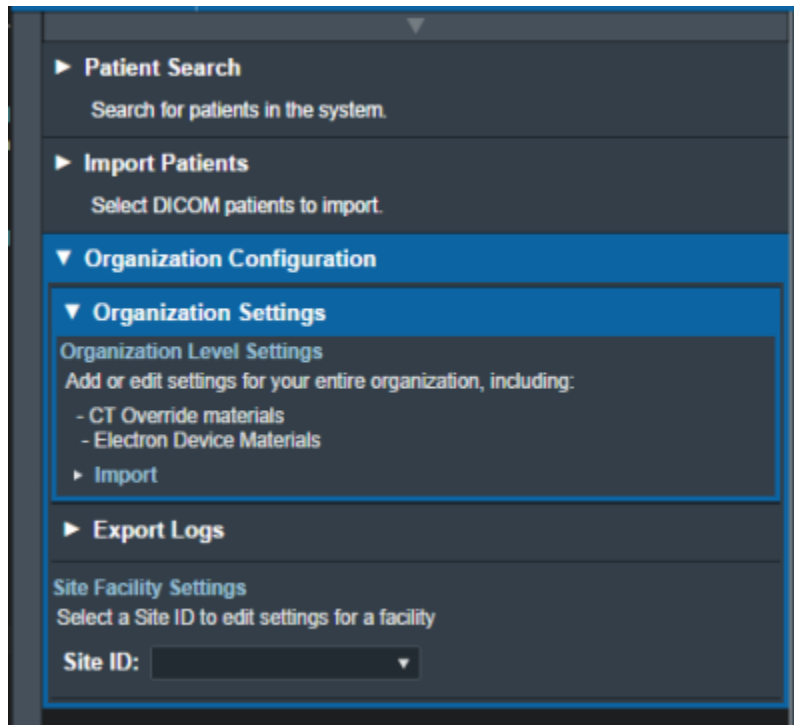


Fig. 1: Organization Configuration UI

Organization Settings

The Organization Settings block allows the user to view and edit settings that affect the entire organization. These settings include organization name, PDF report logo, CT override materials, and electron device materials.

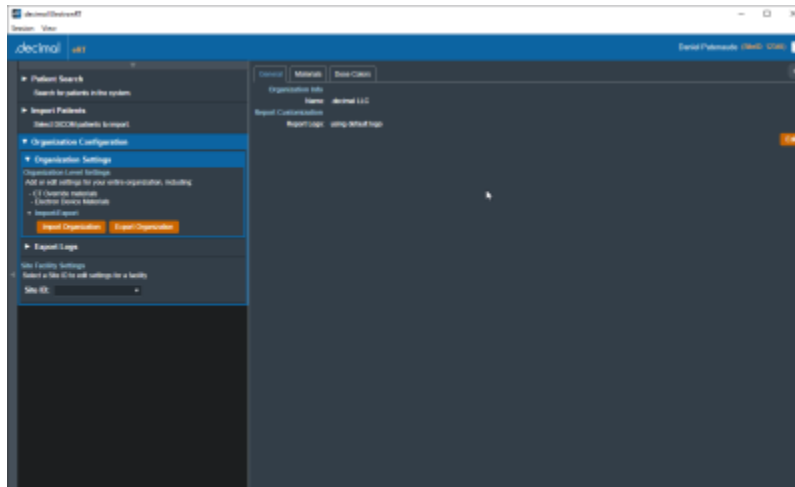


Fig. 2: Organization Settings

While editing the settings in the Organization Configuration block, the UI is changed such that the user cannot click on other sections of the UI until confirming edits with “Done” or canceling edits with “Cancel”. Some settings are grouped into tabs, such as the “General” and “Materials” tabs in the Organization Settings.

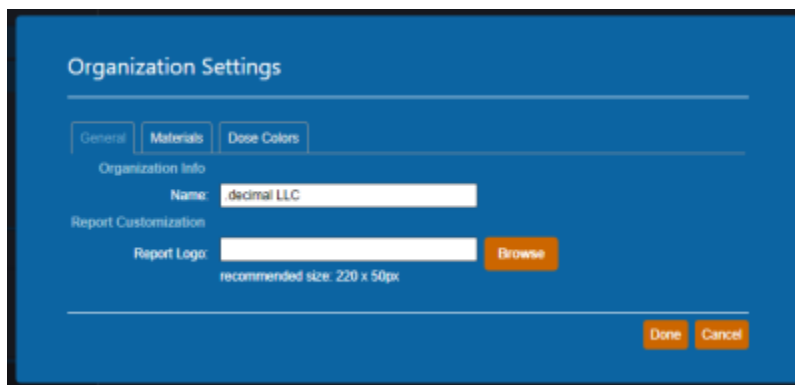


Fig. 3: Organization Edit UI

Materials

The Materials definitions allow specifying the device materials and CT override materials. These materials will be usable across the entire organization and all sites. The materials are represented as json in the following example format:

Device Material

```
{
  "bolus": {
    "density": 0.920,
    "name": "BlueWax",
    "relative_scattering_power": 0.920,
    "relative_stopping_power": 0.920
  }
}
```

```
}
```

Override Material Example

```
{
  "Water": {
    "density": 1,
    "name": "Water",
    "relative_scattering_power": 1.0,
    "relative_stopping_power": 1.0
  }
}
```

Dose Colors

The Dose Colors definitions allow users to specify the default dose colors and levels when creating new plans. These values will apply to all plans created within the organization across all sites.

Color	RGB	Dose %
	139, 0, 0	110
	255, 100, 0	105
	255, 200, 0	100
	205, 255, 0	95
	102, 255, 0	90
	0, 255, 0	80
	0, 255, 102	60
	0, 255, 204	50
	0, 204, 255	30
	0, 100, 255	20
	0, 0, 255	10

Note: The dose color options set will only be applied to newly created plans. For existing plans select the 'reset to defaults' link within the Dose Controls right hand side user interface to revert to the site level defaults.

Export Logs

The Export Logs block allows the user to export a file containing logs of user activity within the app. This .csv file contains data exported from the app database that keeps track of critical user activity, including (but not limited to): opening of patients and plans, plan approvals, report/DICOM exports, and hardware ordering.

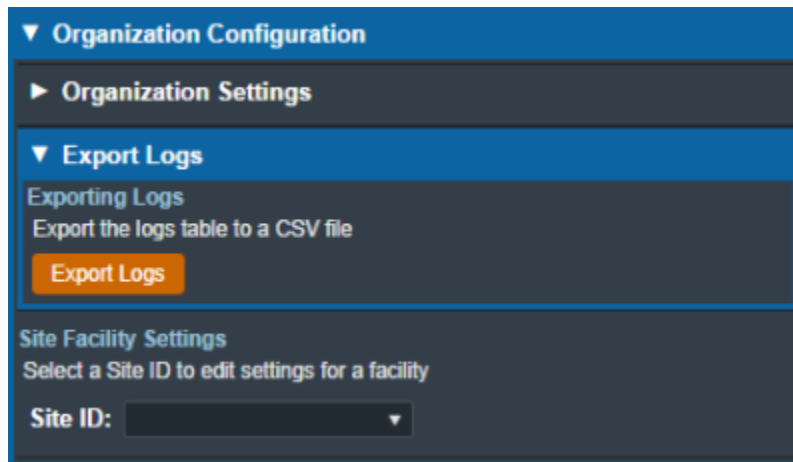


Fig. 6: Export Logs UI

Site Facility Settings

The Site Facility Settings section of the Organization Configuration allows users to view and edit settings for each site in the organization. After selecting a Site ID, the site level settings are divided into five categories: Site Settings, DICOM Settings, CT Curves, QA Options, and Machine Settings.

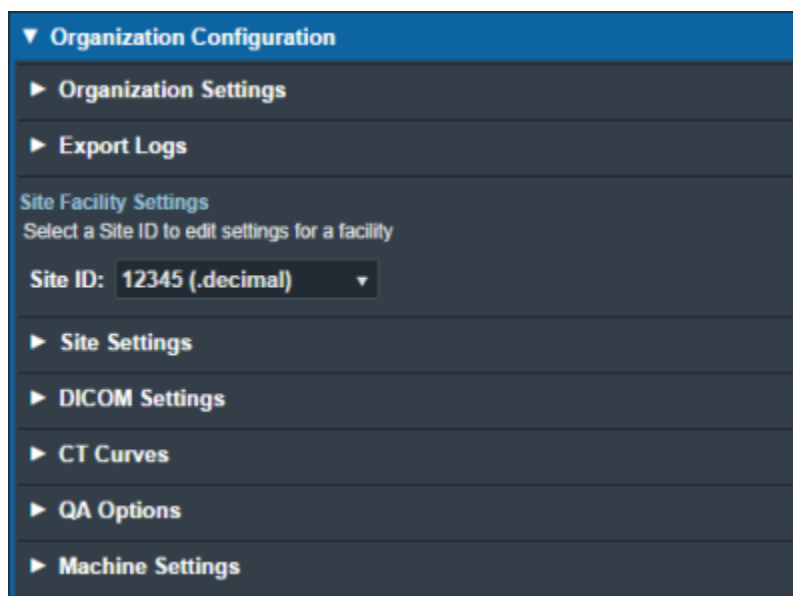


Fig. 7: Site Facility Settings

Site Settings

The Site Settings block allows for the viewing and editing of miscellaneous site level settings including the site address, physicians, and treatment sites. In order to edit physicians, the user must first click on the physician name on the list of physicians on left side UI and then click on “Edit Physician” on the right side UI (this is also the case with treatment sites). Users can add or remove physicians and treatment sites using the left side UI.

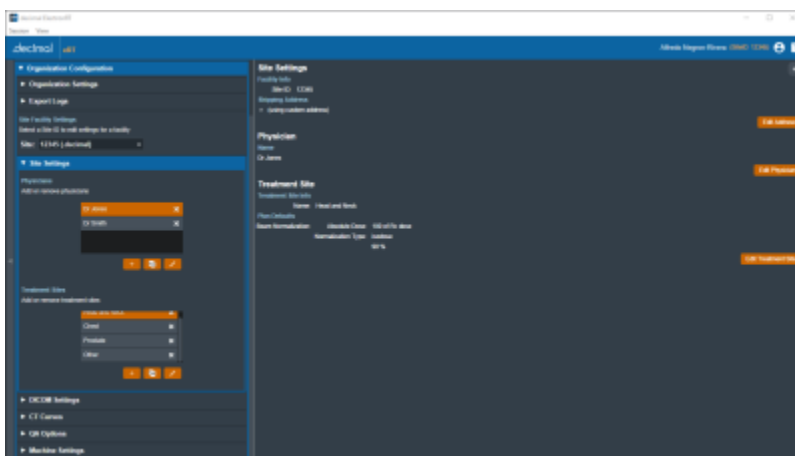


Fig. 8: Site Settings UI

DICOM Settings

The DICOM Settings block allows the user to view and edit settings related to the export of DICOM files. These settings include the default DICOM export directory, list of DICOM export server AE titles, and the monitoring directory for DICOM Receiver imports.

These settings are applied and available to all users of the selected Site ID for which the settings are present.

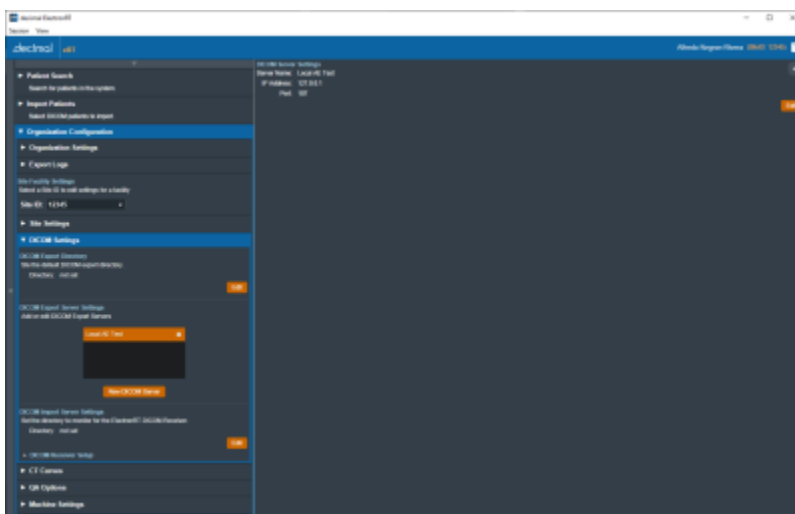


Fig. 10: DICOM Settings UI

DICOM Export Directory	
Export Directory	Sets the default export folder when exporting DICOM files to disk.
DICOM Export Server Settings	
Export Export Servers	A list of DICOM AE titles (DICOM Receivers from another system) that the ElectronRT app can export to.
	Server Name: The name of the DICOM server that will displayed to the user when exporting within the eRT app.
	IP Address: The local network IP address from which to send DICOM files to the DICOM receiver.
	Port: The local network port being monitored by the specified DICOM receiver.
DICOM Import Server Settings	
DICOM Import Monitoring Directory	Sets the monitoring directory for importing patients received from the ElectronRT DICOM Receiver .

CT Curves

The CT Curves block allows for the viewing and editing of CT conversion curves. These curves must contain data for both relative stopping and scattering power. The relative stopping power data for the selected curve is displayed on a graph on the right side UI.

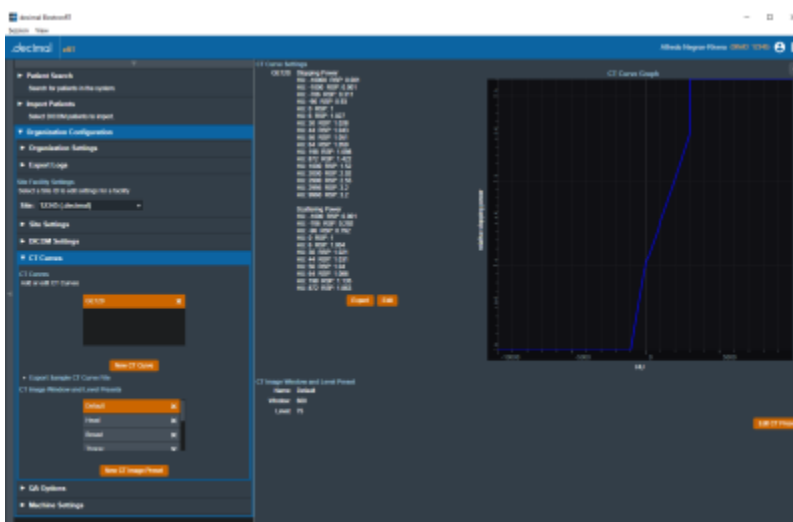


Fig. 11: CT Curves UI

The CT Curves are defined as json as shown in the below example (note: this data is provided as a user guide reference only and should not be used in a commissioned treatment planning system; as such, it does not contain full values of CT curve data):

CT Curve Example

```
{
  "scattering_power_curve": [
    {
      "key": -1000.0,
```

```

        "value": 0.0010
      },
      {
        "key": -700.0,
        "value": 0.2920
      },
      .
      .
      .
    ],
    "stopping_power_curve": [
      {
        "key": -10000.0,
        "value": 0.0010
      },
      {
        "key": -1000.0,
        "value": 0.0010
      },
      .
      .
      .
    ]
  ]
}

```

QA Options

The QA Options block allows the user to view and edit settings related to Dose QA. These settings include the dimensions of the water phantom, dose grid spacing, and the default measurement plane depth.

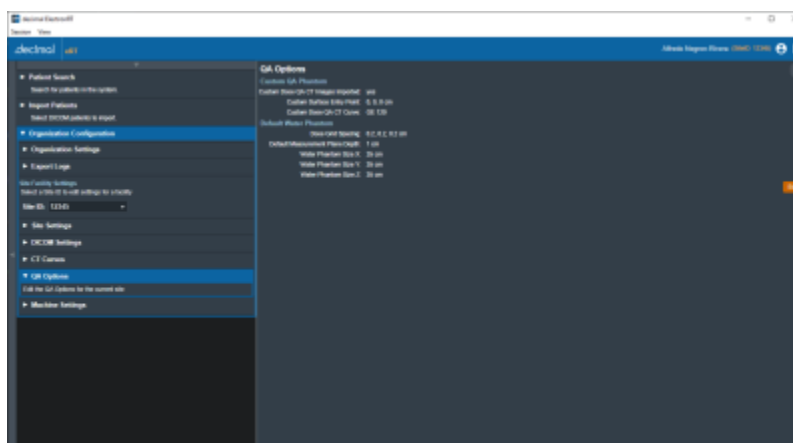


Fig. 13: QA Options UI

Machine Settings

The Machine Settings block allows the user to view and edit machines for the selected site. The machine settings are divided into five tabs: General, Geometry, Applicators, Commissioning, and Advanced.

General Machine Settings

The General tab of the Machine Settings block allows for the viewing and/or editing of general machine information such as the machine name, description, serial, type, and physical SAD.

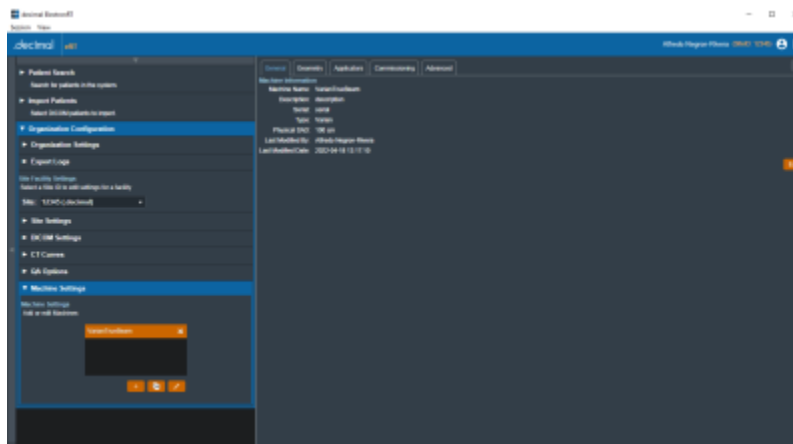


Fig. 14: General Machine Settings UI

Machine Geometry Settings

The Geometry tab of the Machine Settings block allows the user to view and edit Machine (Equipment) coordinate system settings. These settings include the reference gantry angle, reference couch angle, reference collimator angle, and the rotation direction of each axis, relative to IEC 61217 coordinate system.

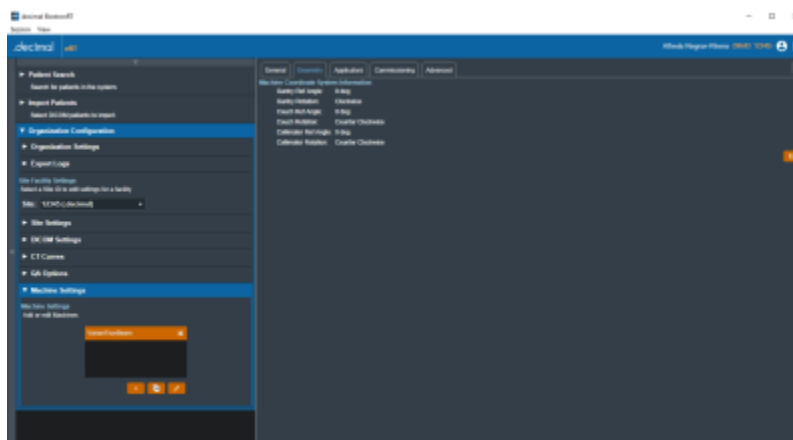


Fig. 15: Machine Geometry Settings UI

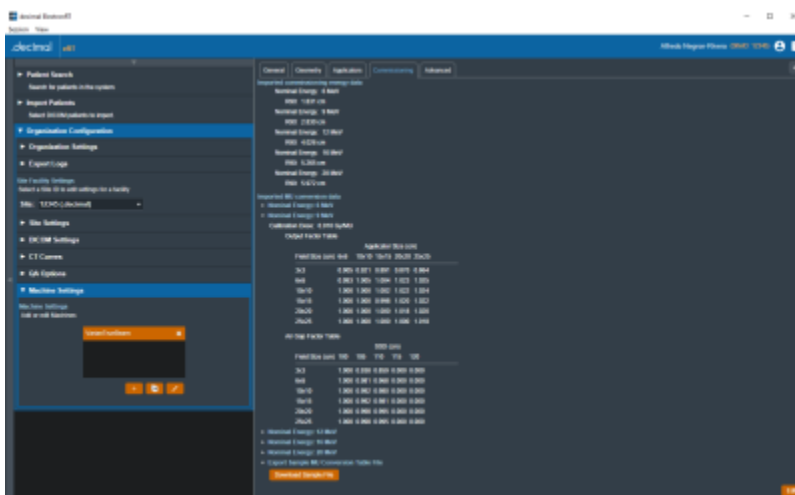


Fig. 17: Commissioning Data Settings UI

Advanced Settings

The Advanced tab of the Machine Settings block allows for the view and editing of advanced machine configuration parameters. These settings include tolerance tables, wedge tray information, blocking tray information, and room imaging parameters. These values are typically not used within the treatment planning process, but are included in DICOM Plan export to meet end user DICOM RT Plan requirements.

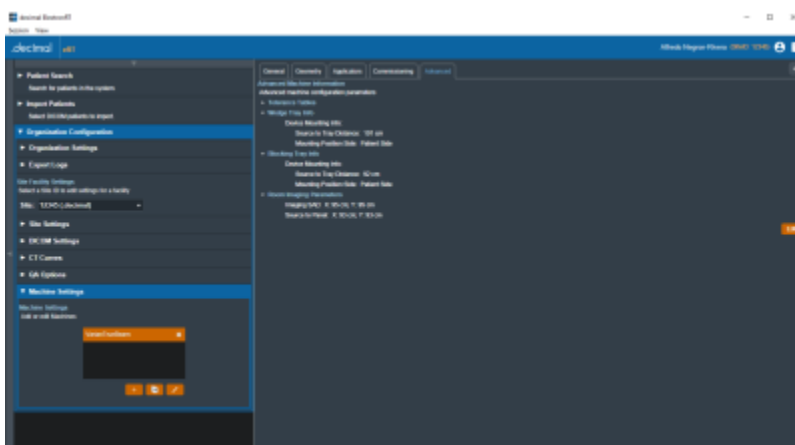


Fig. 18: Advanced Machine Settings UI

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