decimal eRT Version History

This section is intended to provide access to previous versions of the decimal ElectronRT (eRT) documentation. Below you will find the userguide for each released version of the decimal eRT app. To find your application's current version use the top "View" menu and select "App Info"; the "Version" field will contain your current version of the App.

User Guide information is directly available on this website for the current latest release and PDF files are provided for offline user guide access for all application versions below.

Release Notes

decimal eRT 0.0.4

May XX, 2021 - Download decimal eRT 0.0.4 User Guide

What's New

- Adds plan level prescriptions and dose normalization
  - Note 1: this removed the prescription definition from the patient Course.
  - Note 2: Unapprobed treatment plans created in versions earlier than eRT version 0.0.4 will not have the plan prescription filled in (denoted by the error: "Prescription statement not found in plan") resulting in dose not being displayed within the treatment plan displays. Users can resolve this by re-adding the prescription that previously existed in the corresponding Course [Known Limitation: Approved Plans #2].
- Adds beam normalization options when creating or editing a beam
  - Users can choose from normalizing to a point, structure (min, mean, or volume), or isodose line
- Adds automatic skin collimator thickness and the option to override and provide a manual thickness
- Combined the Electron Block and Skin Collimator blocks into a single Collimation block when defining a beam. This ensures the Electron Block and Collimator are correctly constrained to each other's geometries for best planning results.
- Adds the DICOM receiver as a configurable and extractable package to the DICOM Organization Configuration block.
- Adds a DICOM AE server echo test to the DICOM Organization Configuration block.
- Adds a CSV import/export for CT curves in the Organization Configuration block.

Bug Fixes

- Fixes a bug preventing the user from importing only a RT Structure Set into an existing patient.

- Fixes frequent organization crashes when saving or immediately after saving a treatment machine.
- Fixes DICOM files being exported to the eRT application folder if no export path was provided. This would cause the decimal Launcher to invalidate the eRT application install [Known Limitation: DICOM Export #1]
- Fixes dose appearing on top of bolus and skin collimator devices by moving the draw order such that the dose image is drawn behind the device.
- Fixes DICOM RT Plan export issues including:
  - Missing RTBeam ApplicatorSequence
  - Missing RTBeam TreatmentDeliveryType
  - Missing RTBeam NominalBeamEnergy
  - Missing RTBlock BlockTrasmission
- Fixes non DICOM files being added to the import file list (they were not attempted to be imported, but it was ambiguous).
- Disables IM devices for Siemens 4×4 applicators.
- Fixes slow bolus operator calculations when compared to p.d.
- Fixes multiple beams causing a image unit error when attempting to export DICOM files.
- Disables the Beams and Export block if a CT curve is not selected (if there are multiple).
- Fixes the DICOM AE exporting locking the UI for a long duration.
- Fixes a bug allowing DICOM files for multiple patients on import.
- Fixes incredibly high dose outside of the patient body.
- Disables beam editing if multiple machines are present and no machine is currently selected.

Note: This release has not been cleared by the FDA for clinical use

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decimal eRT 0.0.3

April 6, 2021 - Download decimal eRT 0.0.3 User Guide

What's New

- Adds site configuration of default plan dose colors
- Adds manual abort of automatic beam calculations to allow the user to manually define the beam
- Adds option to import and export the organization configuration
- Adds a DICOM Receiver to support receiving DICOM files into the App
- Adds DICOM monitoring directory to the site configuration and importing options to the Import UI
- Adds the ability to manually change the Course structure types when editing a Course
- Adds the ability to use skin collimators with an Optimized Thickness bolus
- Adds individual DICOM file browsing, recursive folder searching (folder adding only) and the ability to remove files
- Adds Plan History viewing and reverting to the General Block
- Adds Organization/Importing and exported

Bug Fixes

- Fixes high memory usage when computing an Optimized Thickness Bolus

- Fixes data upgrades for approved plans causing errors when the patient directory is moved
- Removes the color chooser when adding a Course prescription
- Fixes automatic beam approaches when using non HFS patients
- Improves the layout of the bolus generation UI
- Fixes a bug allowing users to save a machine with a 0 default block margin
- Fixes a bug that caused a crash when removing an item from the scrollable list UI
- Fixes structures being sorted non-alphabetically when imported
- Removes the Course color since it's no longer used
- Fixes auto gantry and couch angle calculations for non HFS patients
- Improves the robustness of data upgrades between versions to ensure future data compatibility
- Fixes memory management to clear unneeded memory when closing a patient

Note: This release has not been cleared by the FDA for clinical use

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decimal eRT 0.0.2

February 24, 2021 - Download decimal eRT 0.0.2 User Guide

What's New

- Adds Skin Collimator creation to electron beams
- Adds the option to shift an isocenter position when creating an electron beam
- Sliced views now jump to the center of the structure when a target is selected
- Adds Intensity Modulator dose scaling controls during bolus creation
- Adds default block margin to the Treatment Machine settings
- Adds applicator to bolus collision detection and errors
- Bolus and Skin Collimator order files now contain Stereolithography (STL) file data

Bug Fixes

- Fixed short patient names causing errors with comp IDs when ordering devices
- Fixed the app being defaulted to full screen on initial application launch
- Fixed checksum race condition and errors when saving a Course
- Updated the treatment machine SAD vale to be a single textbox
- Fixed the Elekta applicator field sizes to be the correct size at tray (5% larger)
- Updated the BEV block & manual edit colors to better show the final block shape
- Fixed the Uniform Thickess Bolus extents box being in the wrong distance unit
- Fixed IM order files to have pins at the physical locations
- Updated Bolus QA to includ eboth the original structures and the reimported structures (which are given a '_QA' suffix
- Disabled the Beams and Export blocks when no treatment machine or CT curves are present in the organization configuration

Note: This release has not been cleared by the FDA for clinical use

decimal eRT 0.0.1

December 4, 2020 - Download decimal eRT 0.0.1 User Guide

What's New

- This is the initial consortium application release
- Initial UI and application, including treatment planning support for electron beams, blocks, and bolus devices.

Bug Fixes

- N/A

Note: This release has not been cleared by the FDA for clinical use

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