Overview

The .decimal astroid Dicom App is used for planning and analysis of proton radiation therapy treatments. The astroid Dosimetry App device is not an interactive end user application. Users of the system will write scripts or use a fully interactive software program that makes calls to the functions provided by the astroid Dosimetry App. The core functionality includes various CT image processing tools, structure and contour modification operators, proton dose calculations, proton aperture and range compensator device design algorithms, and many other radiotherapy specific calculation functions.

Access to the astroid Dosimetry App is provided by the thinknode™ framework using http json formatted requests. thinknode™ provides the 'backbone' used to send and receive requests, maintain users, realms and organizations, and provide data storage and management.

Note this product received 510(k) clearance as of May 15, 2015.

User Guide

The Dosimetry App user guide lists all avaliable api function calls, as well as gives examples of usage and explanation of the affects.

Getting Started Connecting to thinknode™ api and initial setup of the astroid Dosimetry App.

Function Categories Dose Calculation Functions (DCF), Design Task Functions (DTF), and Radiotherapy Support Functions (RSF) available through the thinknode™ api.

Data Types astroid Dosimetry App datatypes available through the thinknode™ api.

Proton Delivery System Details about coordinate systems and beam representations.

Examples thinknode™, DCF, DTF, and RSF example projects and usages.

Known Limitations Known application limitations, defects, or inconsistencies.