Overview

The astroid Dicom App is used to provide access to functions which are used for reading a dicom file and returning more useable standard data types, such as those from the RT Types App available on the thinknode framework. The astroid Dicom 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 Dicom App. The core functionality includes parsing dicom RT_Plan, Structure Set, CT Image, and Dose file types.

The Dicom Manifest Guide contains a complete list of all functions and types supported by the astroid Dicom App through API calls.

User Guide

The Dicom App User Guide lists all available 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 Dicom App.

Examples thinknode™ example projects and usages.

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

Known Limitations Known application limitations, defects, or inconsistencies.

Reference Documentation

Hong et al A pencil beam algorithm for proton dose calculations

Slopsema Incorporation of the aperture thickness in proton pencil-beam dose calculations

IAEA-TRS-430 Commissioning and Quality Assurance of Computerized Planning Systems for Radiation Treatment of Cancer

IAEA-TECDOC-1583 Commissioning of Radiotherapy Treatment Planning Systems: Testing for Typical External Beam Treatment Techniques

Park Commissioning Commissioning a Proton Therapy Machine and TPS

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Last update: **2021/07/29 18:19**