Setup and Users Guide

Canvas Imaging Desktop Dicom Server

Version 0.1.098

Canvas Imaging Desktop Dicom Server

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426 Manatee Ave W

Bradenton, FL 34205

941-799-7724

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Introduction

Canvas Desktop Dicom Server (Canvas DDS) is a desktop application intended to supply basic Digital Imaging and Communications (DICOM) Networking and Order Entry requirements. It is not intended to be a complete Picture and Archiving solution (PACS), but rather as an interface between the diagnostic modalities and the end users practice management (PM) or electronic health records system (EHR). As such Canvas DDS does not require a dedicated server or any complex networking setups. It does provide basic computerized order entry for imaging results and also DICOM storage and conversion as required. DICOM can be very complex and it is the intent of Canvas DDS to ease the DICOM implementation and requirement.

Features

The following are the main features of Canvas DDS:

1. Modality Worklist Server (C-Find Service Class Provider)
2. Dicom Storage Server (C-Store Service Class Provider)
3. Dedicated internal MWL Server for each modality
4. Dedicated internal dicom storage for each modality.
5. Import schedules from your PM or EHR system.

Modality Worklist Features

The modality worklist component features an active database. This means that all DICOM queries from the instrument modality will be returned with live results. If changes are made throughout the day, these changes are reflected in real time. This accommodates walk-ins and changes to the schedules.

The modality worklist does active filtering based upon the modality. This means that patients assigned to diagnostic instrument A will not be present on the search results for diagnostic instrument B.

To further enhance worklist capabilities, specific worklists providers can be created for each instrument. This added functionality does not require any additional physical hardware and is enabled with a simple setting. Please see the setup guide for additional details.

The worklist feature also supports the ability to import various data formats. These formats include excel version 2007 and above, comma separated values, and XML. Please contact your PM or EHR vendor to see if they can create these files, if not, please contact us at help@remedisoftware.com for further assistance.

Dicom Storage Features

Canvas DDS implements DICOM Storage Service Class Providers. This means that you can send DICOM files to the application. You may either save them as DICOM for your existing PACS system, or have them converted to standard formats that you (or your EHR) may use.

Canvas DDS will support standard JPEG photometric interpretation and Encapsulated PDF DICOM SOP Classes. For further information, or to request a DICOM Conformance Statement, please contact us at help@remedisoftware.com.

Additionally, Canvas DDS can implement a dedicated Dicom storage server for each modality. This means that one instrument will not take priority over another This can be extremely useful if you have cameras that take large amounts of pictures.

Installation

Simply run setup.exe to install the application. For most installations, you may accept the default values.

Licensing and Trial versions

Once Canvas DDS is started for the first time, you will be prompted to enter your license key or you may evaluate the product for 30 days. The 30 day evaluation is fully functional with all DICOM capabilities. Once you have a license, you may install the application on up to five computers. However, if you wish to share your order entry database, you will need to perform a network configuration. Please see the section ("Missing") for details.

Quick Start

After the licensing component is complete, the application will automatically configure your database upon installation. You will then need to setup your instrument modality parameters. Please see the supplied instrument worksheet to help you with this step. This worksheet will ask you to identify your devices and all the required information to fascilitate setup. It is recommended that you fill this out before configuring your application.

Installation and Overview Check

1. Install software
2. Install License or Trial
3. Fill out instrument/equipment network questionnaire to specify names, ports, AETs.
4. Configure application and servers
5. Configure equipment and diagnostic modalities
6. Test Servers
7. Determine if network application is required