C-DAC’s Medical Informatics Software Development Kit (SDK) for DICOM PS 3.0-2015 is an implementation of Digital Imaging and Communications in Medicine (DICOM) PS3.0-2015 in healthcare applications. The SDK is a Free and open-source software (FOSS) which facilitates incorporation of NEMA’s DICOM PS 3.0-2015 in healthcare applications.

The API library can also be used by Medical device manufacturers for making their medical device medical standards compliant.

Advantages

- SDK is licensed under Apache License v2.0 (Open Source License) that makes it free for both personal/commercial use.
- SDK allows building Service Class User (SCU) and Service Class Provider (SCP) components for all standard defined modalities.
- Integrates with Rapid Application Development Tools so programmer can continue using IDE of choice.
- Apart from standard deployable packages, custom packaging allows to target specific memory, storage, and cost requirements.
- Layered API packaging approach makes it possible to target currently needed DICOM capabilities and enhance/extend later.
- Cost effective complete implementation of the standard provides high Return-On-Investment.
- Suitable for both DICOM expert and general object-oriented programmer.
- Start early with SDK using variety of samples, test codes, documentation available with the toolkit.
- Designed to easily deliver and update revisions to standard.

C-DAC’s Medical Informatics Software Development Kit is a suite of API libraries & toolkit that provides medical standards compliance to the implementing applications/medical devices.

Digital Imaging and Communications in Medicine (DICOM) is a comprehensive set of standards for handling, storing, printing and transmitting information in medical imaging proposed by National Electrical Manufacturers Association (NEMA) (www.nema.org)
Salient Features

- Complete object-oriented implementation of the standard
- Implies all standard defined data types, sequences, macros, IOD's
- Manipulate data using Dataset and/or IOD Data Model approach
- Provides network communication capability with advanced application-level support for security/compression
- Efficient handling of memory and native platform multicore/multiprocessing capabilities
- Comprehensive Error/Warning Logging capability to assist debugging
- Allows customisation through extensible interfaces
- Ready-to-run command line utilities and sample codes based on SDK included in package
- Complete API and Help documents for easy understanding, reference, and use
- Source code available for download and reference

Sample Applications

Java API Documentation

Command line Utilities

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