C-DAC’s Medical Informatics Software Development Kit (SDK) for ANSI/HL7 v2.8.2-2015 is an implementation of Health Level Seven International's ANSI/HL7 v2.8.2-2015. The SDK is a Free and open-source software (FOSS) which facilitates incorporation of ANSI/HL7 v2.8.2-2015 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 message source, recipient, and exchange entities using file or stream based communication models.
- 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 HL7 capabilities and enhance / extend later.
- Suitable for both HL7 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 that provides medical standards compliance to the implementing applications/medical devices. HI7 is an ANSI approved standard for information exchange between medical applications proposed and maintained by Health Level Seven International (www.hl7.org)
Salient Features

- Complete object-oriented implementation of the standard
- Implements all standard defined data types, value tables, segments, messages, queries, and events
- 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
objHL7Stream;

void main(String[] args)
{
    objHL7Dump = new HL7Dump();

    //user define HL7 file
    System.out.println("Enter HL7 file to dump: ");
    InputStreamReader input = new InputStreamReader(System.in);
    BufferedReader reader = new BufferedReader(input);
    String strHL7File = reader.readLine();

    //user can define its own destination folder
    //where user can dump HL7 file
    System.out.println("Enter destination folder when logging directory,
    specify any directory where you used the file.");
    String strDestFolder = reader.readLine();
    Config objHL7Config = HL7Config.createInLoggindirectory(strDestFolder);
}
```

Java API Documentation

Command Line Utilities

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