



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.

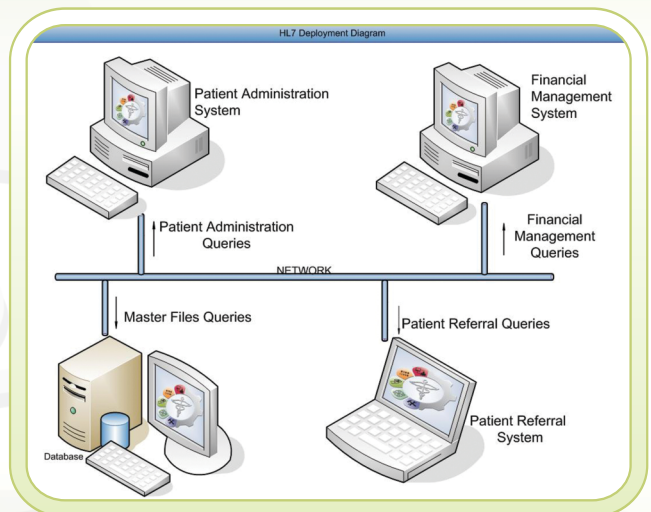
Advantages

- 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

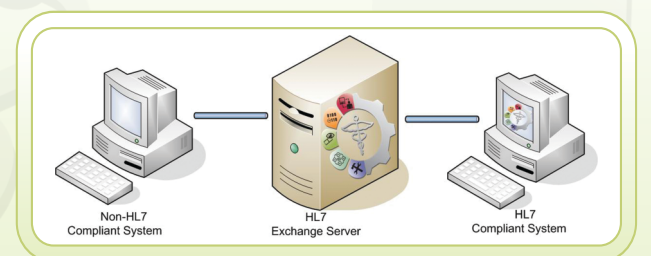
C-DAC's Medical Informatics Software Development Kit is a suite of API libraries that provides medical standards compliance to the implementing applications/medical devices

HL7 is an ANSI approved standard for information exchange between medical applications proposed and maintained by Health Level Seven International (www.hl7.org)

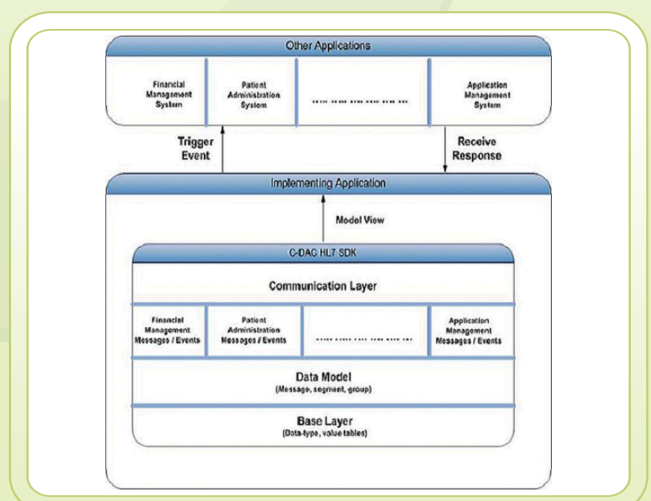
Usage Scenario



Data Exchange Scenario



Architecture





Sample Applications

```
objIHL7Stream;
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 where you want to dump HL7 file: ");
String strDestFolder = reader.readLine();

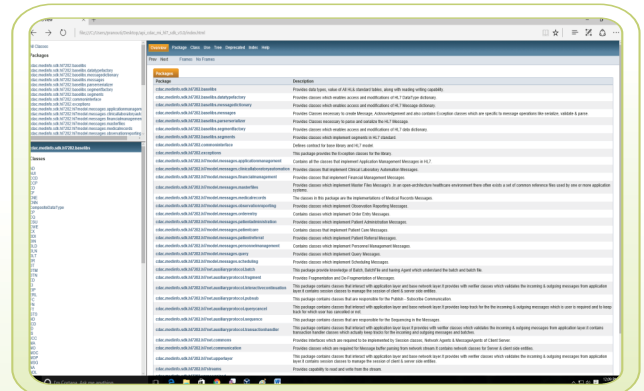
objHL7Config = HL7Config.createInstance(strHL7File, strDestFolder);

//Specify any directory where you want to create logging directory.
```

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

Java API Documentation



Command Line Utilities

```
ot@localhost(utilities)# clear
ot@localhost(utilities)# ./HL7M_DUMP.mh
HL7M_DUMP :: Creates XML Document having information of all attributes of HL7 Message.
HL7M_DUMP [-d LogDir] -f HL7File [-s DestinationFolder]
Log directory
User's temp directory is taken as default.
Source HL7 file for dump.
Destination folder path to store converted XML document file.
User's temp directory is taken as default.

Example :
HL7M_DUMP -f sample.hl7 -s C:\HL7Content
It will create the information of HL7 message to XML document and stores same to folder HL7Content.

ot@localhost(utilities)# ./HL7M_DUMP.mh -f /home/sayali/Desktop/SampleData/ADT_A01_Event.hl7 -s /home/sayali/Desktop/SampleData/ADT_A01_Event.xml
INFO: 2.8.2: is not present in table no 184
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
INFO: CCD: is not present in table no 399
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
INFO: strIdentifierTypeCode: is not present in table no 201
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
INFO: strHomeRepresentationCode: is not present in table no 400
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
INFO: strHomeRepresentationCode: is not present in table no 400
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
INFO: CCD: is not present in table no 399
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
INFO: CCD: is not present in table no 399
INFO: 2017-11-02:34 AM cdac.medinfo.sdk.hl7282.util.HL7Logger Log
```

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Download: https://cdac.in/index.aspx?id=hi_hs_medinfo_hl7_download

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