



# HL7Kit 2018

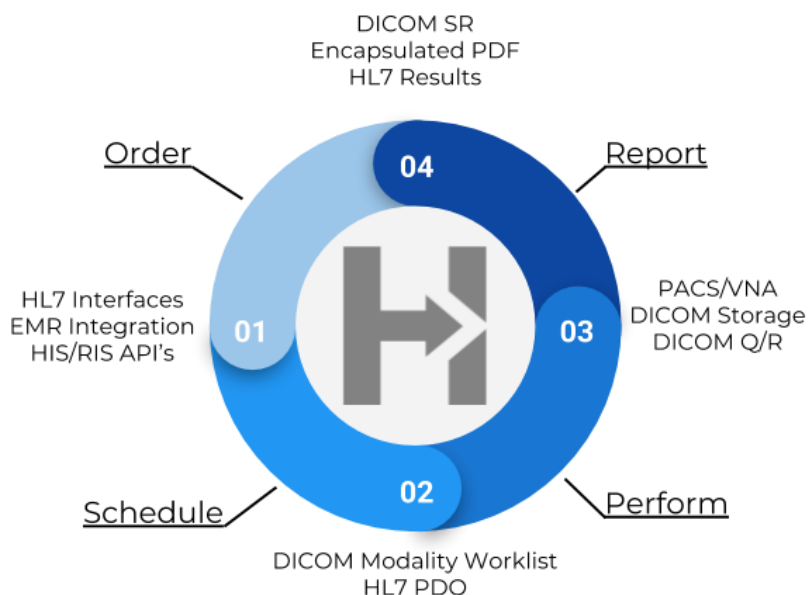
## A Combined DICOM® and HL7® IT Solution

### HL7Kit 2018

HL7Kit combines a DICOM Archive (PACS), A Modality Worklist Server and an HL7 Message Broker, all sharing the same database and communicating with each other.

HL7Kit 2018 provides dynamic mapping rules and message structure definitions while keeping compliance and adhering to the standards.

The kit injects simplicity and flexibility into Healthcare IT and EMR Integration by enabling non-programmers to set-up and maintain the PACS and the RIS complex workflow procedures in multi-vendor environment.



### Main Features

#### DICOM Services

- Archive (PACS)
  - Storage SCP
  - Query/Retrieve SCP
- Workflow
  - Modality Worklist SCP (DMWL/MWL)
  - Modality Performed Procedure Step SCP (MPPS)

#### HL7 Services

- HL7 Message Broker
  - Send and receive HL7 Messages
- Drag & Drop Dynamic Mapping Rules and protocol definitions
  - HL7v2, HL7v2XML

#### Supported Database Engines

- MS SQL Server
- MySQL
- SQLite

#### Network Protocols

- DICOM over TCP/IP
- HL7 MLLP over TCP/IP
- Shared Network Folders

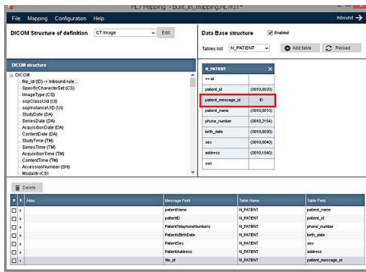


# Capabilities and Technical Information



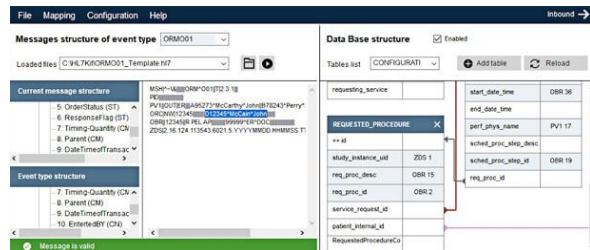
## Dynamic HL7® Interface Design Tools

HL7Kit Mapper uses drag and drop to design your interfaces. You can design your interfaces simply by dragging and dropping from the message structure. When designing outbound messages you can see the generated HL7 messages while editing the rules using the interactive preview.



## Database Support

Supported databases: MS-SQL Server/MySQL/SQLite  
HL7Kit 2018 now comes out of the box pre-configured for SQLite. This allows you to experience the kit with zero configuration. Additionally it enables you to use the kit on small medical devices that doesn't require a full scale database engine. For full scale deployment we recommend MS-SQL Server. The kit fully supports MySQL as well.



## DICOM® Mapping

HL7Kit 2018 comes with a powerful full featured PACS Server that includes Storage, Query/Retrieve and Worklist Management. But beyond standard DICOM functionality, the kit brings a powerful DICOM Mapping Tool that allows you to extend the functionality of the DICOM server and easily extract data from DICOM files into your custom database schemas.

## Application

### HL7 Service

The HL7 runtime does the actual work of message processing according to the definitions made using the HL7 Mapper.

### DICOM Server

The DICOM Server is integrated with the HL7 Server and uses the same database. It is a Modality Worklist SCP, Storage SCP and Q/R SCP.

### HL7 Runtime Control Panel

The HL7 runtime control panel is used to configure the HL7 and the DICOM Services

### HL7 Sender

HL7 message editor and validation tool and TCP/IP network message sender

### HL7 Receiver

HL7 TCP/IP listener and Message processor.

### HL7 Mapper

The main design tool for HL7 message processing. It is used to define incoming and outgoing message processing definitions.

### Worklist Manager

A simple Worklist manager that can be used for searching patients/procedures stored in DB and scheduling studies for the Modality Worklist SCP

### Dicom Mapper

A console application to extract info from DICOM files stored by DICOM server and insert it into HL7 Database

## System Requirements

### Operation System

Windows Server 2016 or later  
Windows 8 & 10 with [Visual C++ Redistributable Packages](#) for Visual Studio 2015

### .NET

Latest .NET Framework (4.0 or later)

### Database Integration

Built-In Database integration

\*Recommended

Microsoft SQL Server 2016 or later, including Express Edition  
MySQL

\*Default

SQLite



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