ZiKiT Server 2020™
Healthcare Integration Server

H.R.Z
Software Services LTD

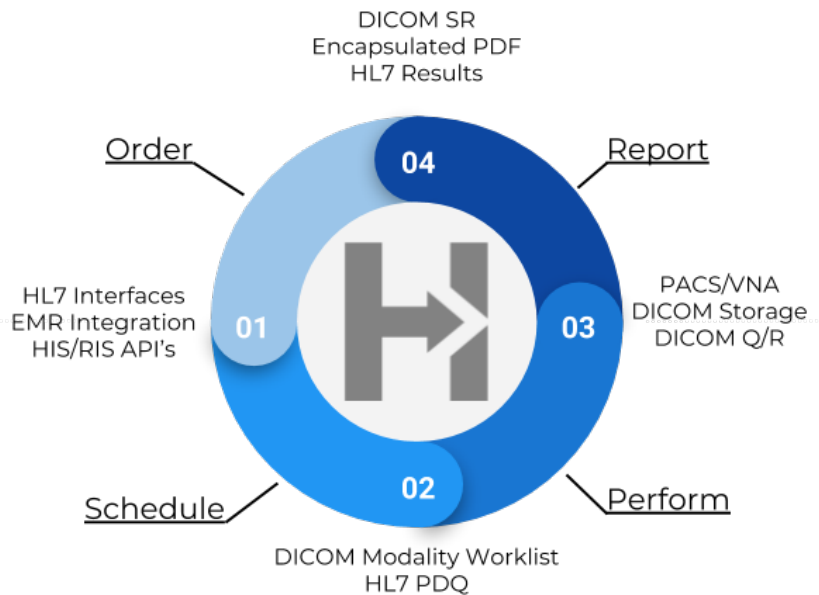Secure DICOM
Secure HL7
(TLS 1.2)

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

ZikiT™ 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.

Order — HL7 Interfaces, EMR Integration, HIS/RIS API's
01

Report — DICOM SR, Encapsulated PDF, HL7 Results
04

Perform — PACS/VNA, DICOM Storage, DICOM Q/R
03

Schedule — DICOM Modality Worklist, HL7 PDQ
02

Main Features

DICOM Services

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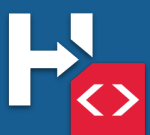   Modality Performed Procedure Step SCP (MPPS)

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

Secure DICOM (TLS 1.2)
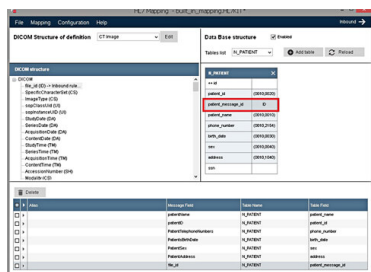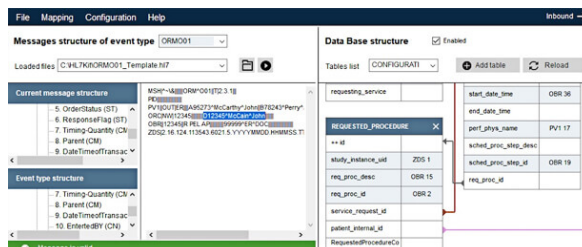Secure HL7 MLLP over TCP/IP
Shared Network Folders

Database Support
Supported databases: MS-SQL Server/MySQL/SQLite
ZikiT™ 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.

Dynamic HL7® Interface Design Tools
ZikiT™ 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.

DICOM® Mapping
ZikiT™ 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 2019
Network Protocols	DICOM/Secure DICOM, HL7 MLLP/Secure MLLP, over TCP/IP
.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

H.R.Z. Software Services LTD
6 David Yellin St. POB 6489 Tel-Aviv
6106401 Israel
Phone: +972-3-5443138
Fax: +972-153-3-5443138
Website: www.hrzkit.com
Contact us: info@roniza.com

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