



**LINKMED® DICOM**  
Web-enabled Interface Engine

## HL7, XML to DICOM and DICOM to HL7, XML

**Gives your application a worklist from HL7 ADT/Order instantly**



LINKMED® DICOM provides the following interfaces:

### HL7

- Receives HL7 ADT, Order, Scheduling messages from the HIS/EMR systems
- Converts HL7 message to DICOM file
- Converts DICOM file to HL7 message
- Sends HL7 ORU message to the HIS or EMR systems

### XML

- Converts XML to DICOM file
- Converts DICOM file to XML

LINKMED® DICOM Features:

- HL7 TCP/IP Receiver
- HL7 TCP/IP Transmitter
- Dynamic Message Mapper
- Web-enabled Interface Engine
- Interface Maintaining Utilities

System Requirements:

- Windows® 2000/XP/Vista or Windows® Server 2000/2003 or above
- Pentium 4, AMD 64 2.0 GHZ CPU or above
- 100 GB Hard Disk Space
- 2 to 4 GB of RAM



## **Overview:**

LINKMED® DICOM manages the flow of HL7 ADT/Order messages from the HIS or EMR systems and creates worklist for RIS or CIS modalities. LINKMED® DICOM process DICOM reports to HL7 result (ORU) or Documentation (MDM) messages and sends those reports back to the HIS or EMR systems. LINKMED® DICOM interface can be configured to meet site specific need. Configuration is managed by LINK Medical trained end-user or by LINK Medical integration personnel.

## **LINKMED® DICOM Interface Module has the following components:**

### ***TCP/IP communication drivers:***

These applications are used to receive patient ADT/Order feed from the HIS or EMR systems and send HL7 result (ORU) or Documentation (MDM) messages back to the client HIS or EMR systems via TCP/IP socket connection using standard HL7 MLLP protocols.

### ***LINKMED® Select application for provider:***

This web-based application resides on vendor data center and uses to view Report by off-site Providers using LINKMED® Select client. Providers log-on to LINKMED® Select to search for report status, view and print their patients study's reports from their office's computers with LINKMED® Select client installed at anytime day or night.

### ***LINKMED® Interface management applications and database:***

These applications manage the transfer of data from/to HIS and EMR systems in HL7 and proprietary formats. Database management application works in conjunction with the LINKMED® Scheduling application to automate and maintain the interface.

### ***LINKMED® DICOM Integration with Vendor System:***

LINKMED® DICOM can be used to seamlessly integrate with vendor's applications. LINKMED® DICOM interface allows vendor applications to:

- Performs search for ADT/Order
- Performs search for study's report
- Performs search for order status
- Reconciles voice file with ADT/Order

### ***System Requirements:***

- Intel Pentium 4 or AMD 64 2.0 GHZ CPU running on Windows® Server 2000/2003 or later
- Pentium or AMD 1.0 GHZ CPU for Interface PC running on Windows® 2000 Pro/XP Pro/Vista
- Internet Information Services (IIS) enable (Optional)
- 100 GB + Hard Disk space
- 10/100/1000 LAN