DCMSYS Rapid DICOM router significantly simplifies remote imaging networks across healthcare enterprises. DCMSYS web-based architecture creates a ‘virtual’ distributed radiology enterprise between various medical facilities. This allows patients to have reliable and immediate access to diagnosticians and treatment expertise across the Enterprise regardless of their physical location. With DCMSYS, you can add any remote clinic, medical office or hospital to your remote imaging network in a matter of hours.

Rapid DICOM router is an easily configurable advanced router that fully supports DICOM 3.0 standard TLS encryption. It is designed as a horizontally scalable solution where multiple units create the DICOM Cluster managed via SNMPv3 protocol. Rapid DICOM Router requires minimum configuration, doesn’t require an external IP and has built-in support functionality, which allows communication with the main support server on demand.

### Primary Functionality

- Ability to monitor local or remote system folders for new images/studies and route them automatically, using DCMSYS state of the art DICOM queuing and de-duplication algorithms
- TLS encryption for secure transmission of DICOM over the WAN HIPAA compliant JPEG2000 compression and JPEG-LS compression
- Designed to work with any DICOM-compatible viewer
- Transfer syntax handling: configurable transfer syntax support allowing datasets to be converted to and stored in any specified transfer syntax to minimize image delivery turnaround
- Incomplete study delivery check to insure full study transfer
- Easy-to-use configuration web GUI and setup wizard. 100% web-based solution
- SNMPv3 management module more statistics and monitoring
- Certificate management, import/export including PKI certificate support
- Secure Remote support capability
- HIPAA compliant Logging or monitoring of all DICOM transactions in a user-friendly, human readable format

Using DICOM and HL7 standards, our routing appliance combines all of the sites and creates one virtual radiology enterprise with one single worklist for all.