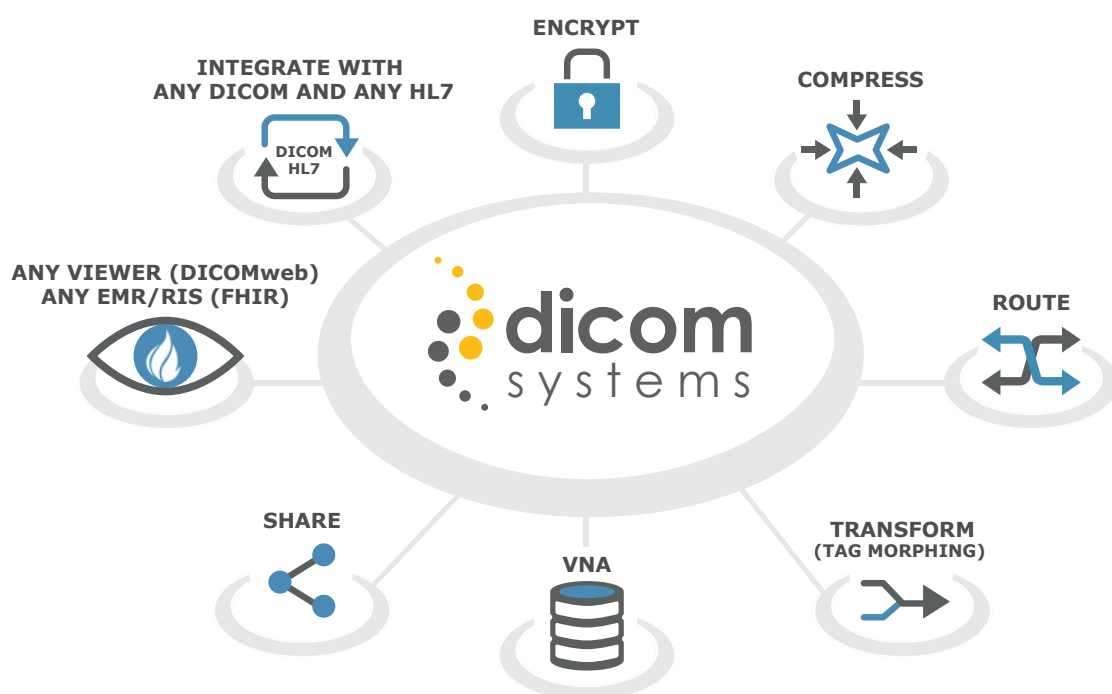# DCMSYS Workflow Unifier

The DCMSYS Workflow Unifier network appliance is the best in class device that facilitates the connection of information repositories via a DICOM/HL7/Scripting toolkit that can be administered remotely using a standard web browser. Studies, reports, orders, or any other patient data anywhere in the Enterprise are pulled and pushed automatically upon a set of user-defined criteria. The Unifier appliance then communicates between the various vendor RIS/HIS/EMR/EHR/PACS to retrieve and send the studies.

The DCMSYS Workflow Unifier simplifies Radiology workflows across disparate healthcare enterprises. DCMSYS' web-based architecture creates a virtual distributed radiology enterprise between various medical facilities and ensures that patients have reliable and immediate access to diagnosticians and treatment expertise across the Enterprise regardless of their physical location. Our unique DCMSYS proxy solution provides a seamless secure way to communicate with any DICOM and HL7-conformant device.

The DCMSYS Unifier appliance is a highly configurable Linux-based router that supports DICOM 3.0 standard TLS encryption. It utilizes the latest technology, to enhance standard protocols, such as SNMP, DICOM and HL7. DCMSYS is designed as a horizontally scalable solution where multiple units create the DICOM Q/R Application Cluster, managed via SNMP V.3 protocol. It uses a set of custom algorithms to pull relevant priors across multiple facilities. This unique device provides Enterprise level connectivity for remote sites, and its remote support feature makes every DCMSYS Unifier appliance easy to maintain. The DCMSYS Enterprise Imaging Unifier is guaranteed to encrypt all outgoing traffic, and provide a robust enterprise-class solution for your DICOM Network.

ENCRYPT

INTEGRATE WITH
ANY DICOM AND ANY HL7

DICOM
HL7

COMPRESS

ANY VIEWER (DICOMweb)
ANY EMR/RIS (FHIR)

dicom systems

ROUTE

SHARE

VNA

TRANSFORM
(TAG MORPHING)

Primary Functionality

- Interoperability between heterogeneous Information systems and any DICOM or HL7 enabled devices

- Advanced customizable HL7 & DICOM routing with OR/AND logical functionality

- Route by any standard or private DICOM tag, route by date, time, and ability to cache data for later delivery

- Route using any HL7 field or a group of fields as routing triggers

- Custom TCP and all industry standard compression such as (JPEG-LS, JPEG2000 and others) for fast study exchange

- Modality worklist DICOM & HL7 broker, and interface engine

- DICOM and HL7 message transformation/ morphing and Radiology HL7 interface engine for integration with multiple PACS and imaging vendors

- DICOM PACS proxy

- TLS encryption for secure transmission of DICOM and HL7 traffic for HIPAA compliance

- Powerful enterprise-wide configuration management

- Powerful logging & auditing for HIPAA

- User friendly WebGUI configuration tools & setup wizard

- Advanced custom algorithm to pull relevant priors across multiple, different IDNS

- Backup enterprise-wide configurations and settings

- SNMP-based monitoring & remote management API to any SNMP-based monitoring and report system

- Designed to work with any DICOM-conformant viewer

- Incomplete study delivery check to insure full study transfer import and export routing tables

- DICOM Modification and QC workstation capability