DICOM

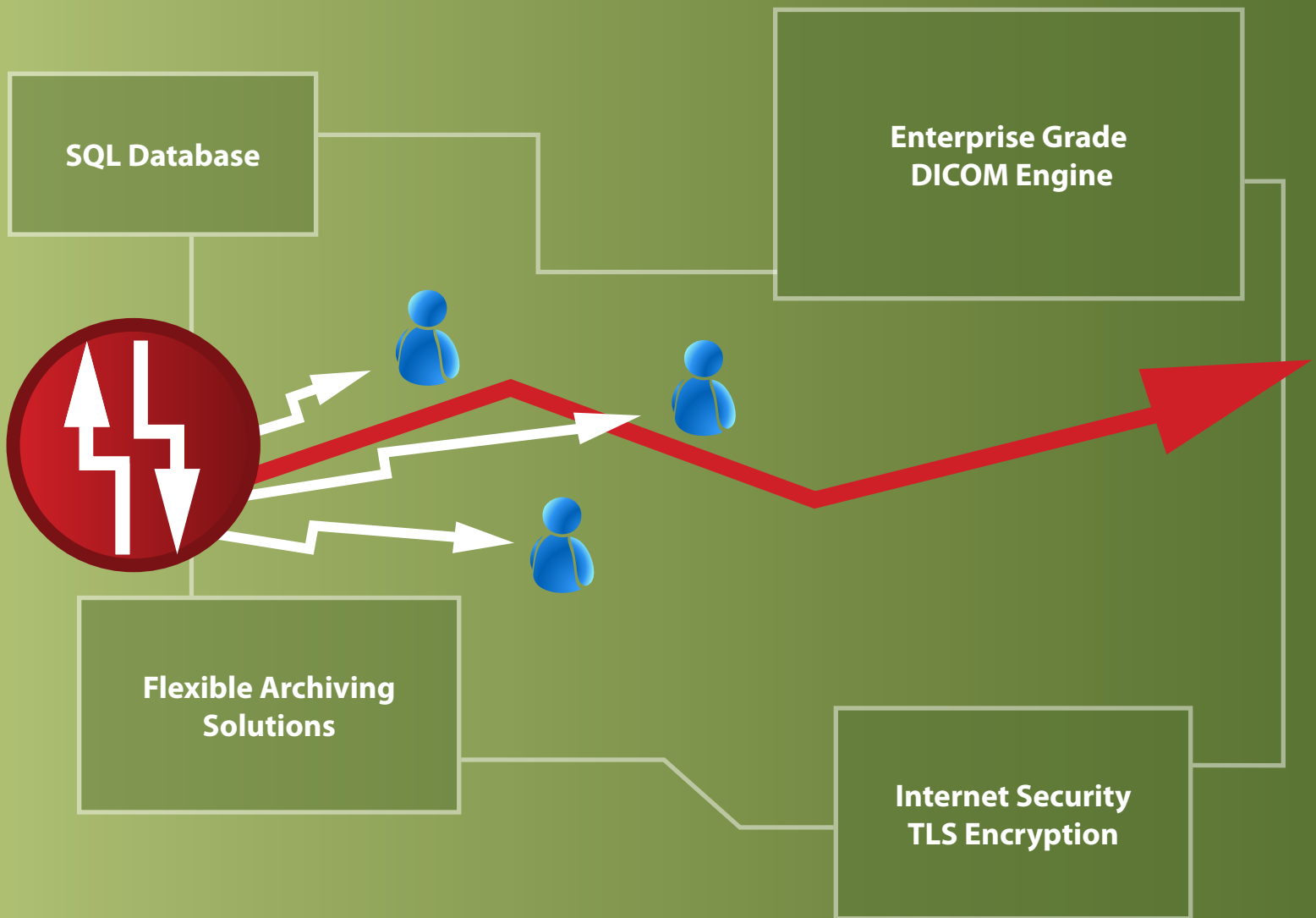# **G**ateway DICOM
Routers

A full-featured online DICOM archive built on the same SQL platform
as our powerful enterprise grade PACS database.

SQL Database

Enterprise Grade
DICOM Engine

Flexible Archiving
Solutions

Internet Security
TLS Encryption

RamSoft
RIS PACS Teleradiology

Gateway DICOM
Routers

DICOM

Gateway DICOM Router is a full-featured online DICOM archive built on the same SQL platform as our powerful enterprise grade PACS database ensuring the reliability you expect from medical applications. It is designed to store, retrieve, and archive hundreds of thousands of studies per year and its intuitive DICOM engine provides unmatched functionality and flexibility. Additionally, our DICOM Router is HIPAA compliant, secure, easy to use and stable. Gateway DICOM Router fits right into your secure infrastructure and gives you peace of mind without exposing security holes. Combine its security features with superior data management and you have the ideal solution for all your imaging needs.

Product Highlights

Flexible Archiving Solution
Gateway DICOM Router is designed for routing images and can also be utilized as an archiving solution with no limits on storage, number of studies or number of modalities, including mammography. Sites have the ability to archive their images on a PC or server. Our Gateway DICOM Router is so robust and flexible that it can work with multiple storage volumes, any number of hard drives, NAS or SAN, and can even store images on a USB flash drive.

Data and Image Security - TLS Encryption
RamSoft takes great care to ensure your data remains secure during transmission to maintain HIPAA Compliance. Data is transmitted in full TLS encryption ensuring secure communication over the Internet to all other compliant devices.

Send and Receive Simultaneously
Gateway DICOM Router can handle any number of connected devices. By using true multi-threading technology, the load a router can handle is only limited by the hardware and bandwidth on which it is running.

Enterprise Grade DICOM Engine
Gateway DICOM Router is based on our tried and tested enterprise grade PowerServer PACS technology, ensuring the reliability you expect from medical applications.

SQL Database
In the past, SQL databases were reserved for high performance PACS and RIS systems. This trend paved the way for sluggish archives and routers. We changed this pattern by giving our Gateway DICOM Router a full SQL back-end.

A DICOM Workstation Router for Every Environment.

Why RamSoft?

RamSoft understands the needs of busy radiology practices and has been developing fully-customizable, feature-rich imaging IT solutions for imaging healthcare providers for over 16 years, allowing end users to overcome their day-to-day challenges.

Up and Running in Less Than 5 Minutes

We designed Gateway DICOM Router with simplicity in mind. Installation and setup is quick and painless, allowing you to get on with your day instead of dealing with pesky IT issues.

Software Requirements

Windows® XP Pro
Windows® Vista Pro
Windows® 7 Pro
Windows® Server 2003
Windows® Server 2008 R2

Windows® is a registered trademark of Microsoft Corporation

Additional Gateway Product Options

RamSoft offers a number of Router/Viewer solutions for your practice. Built on the robust Gateway DICOM Router platform, the Viewer models expand your capabilities.

Gateway QC Viewer
Full QC and Viewing Capabilities

Gateway Mammo Viewer
Full QC/Viewing Capabilities and FDA Approved for Mammo Reads

RamSoft
Gateway DICOM Router

HIPAA COMPLIANT, DICOM TLS
ROUTER & ARCHIVE
Free 30 day trial download
www.ramsoft.com

Robust Features

Edit Patient Demographics and Study Information right from the router's easy-to-use search screen. This allows for quick and simple correction of common mistakes.

Auto Image Compression allows you to breathe new life into your modalities that do not support image compression. By routing your images through Gateway DICOM Router, you will be able to compress your data using the latest in JPEG image compression.

Automatic Prior Exam Routing along with new incoming exams is effortless with Gateway DICOM Router. Images stored on any DICOM compliant device can be automatically retrieved and sent to any destination.

Automatic Window/Level and Filtering, using the histogram method, can be applied to images as they are sent through the router. Filters, such as the Median filter, can be used to remove grid lines and noise.

Automatic DICOM Field Mapping in the Gateway DICOM Router eliminates unreliable DICOM mapping scripts and non-managed third-party solutions.

VCR Style Routing mechanism is so flexible that it allows you to route studies by status, modality, faculty, physicians, times, dates, AE title and many other DICOM tags.
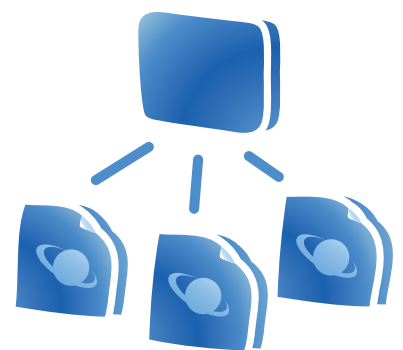
Communication Logs in the Gateway DICOM Router maintains a list of all the studies that are currently being transferred, are queued up to be transferred, or have been transferred out of the system because knowing the study transmission status is critical.

Powerful Advanced Features

Rapid Routing* is proprietary RamSoft technology that opens up additional lines of communication from the modalities to the PACS to accelerate the transfer of study images and data over an internet connection. Rapid Routing is an economical solution for practices that have maxed out their bandwidth or in instances, such as Teleradiology, where the timely processing of STAT studies is crucial for diagnosis and treatment of the patient.

Custom Scriptable Routing Rules* allow custom routing and processing to be performed using almost any tag in a DICOM object that is being received or transmitted. This can eliminate time consuming tasks that would otherwise be performed by a QC / post-processing tech.

*Add on

GATEWAY DICOM SOLUTIONS - COMPARISON CHART

Product Features	Router	QC Viewer	Mammo Viewer
BASICS			
5MP Display Support			●
Ability to view multiple patients simultaneously		●	●
Auto Image Compression	●	●	●
Auto Window/Level Filtering	●	●	●
CD/DVD Burning with RamSoft Viewer		●	●
Custom Word Report Templates with DICOM fields		Optional	Optional
Customizable Menu, Toolbars and Mouse Presets		●	●
DICOM Printing		Optional	Optional
DICOM Routing	●	●	●
FDA Mammography Approved with Mammo-specific tools			●
Film Digitizing		Optional	Optional
Image Viewing and Filters		●	●
Intelligent search with results as you type	●	●	●
JPEG2000 Compression	●	●	●
Learn protocol layouts based on imaging device		●	●
Learn protocol layouts based on Mammo view			●
Licensing	Per Workstation	Per Workstation	Per Workstation
MIP/MPR/MinIP/VR (derived series, screen capture)		●	●
Multi-Monitor Support (up to 4 Monitors)		●	●
PET/CT Fusion		●	●
Prior Prefetching/Auto Routing	●	●	●
Probe and ROI Measurements including Hounsfield Units (HU) for CT and SUV for PET		●	●
Quality Control Module		●	●
Schedule VCR Style Routing	●	●	●
Send & Receive from an Unlimited Number of Devices Simultaneously	●	●	●
SQL Database	●	●	●
Unlimited Customizable Worklists/Unified Worklist		●	●
Users per Workstation	Unlimited	Unlimited	Unlimited
View Cine Images		●	●
View DICOM Structured Reports		●	●
View/Create DICOM Presentation States		●	●
View/Crete Key Objects		●	●
Viewing protocols and viewer features		●	●
Workstation PACS features		●	●
Worklist Alerts		●	●
REPORTING FEATURES - OPTIONAL			
Auto Report Distribution: Email, File Export		Optional	Optional
Diagnostic Reporting		Optional	Optional
Digital Dictation and Transcription		Optional	Optional
Document Scanning		Optional	Optional
Dragon Medical Voice Recognition Integration and License		Optional	Optional
Electronic Report Signing		Optional	Optional
Structured Report Templates (based on RSNA Guidelines)		†	†
ADMINISTRATIVE & IT FEATURES			
Audit Trails - End User, Patient, and Study		●	●
Automatic DICOM field Mapping	●	●	●
Customizable Scripting Routing Rules	Optional	Optional	Optional
Data Acquisition Module		Optional	Optional
Edit Demographics	●	●	●
Image Storage	●	●	●
Rapid Routing (Proprietary Technology)	Optional	Optional	Optional

● Included / † If reporting option is licensed

RamSoft

RIS PACS Teleradiology

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A HEALTHCARE LEADER. Founded in 1994, RamSoft, Inc. is a leading Canadian healthcare software and services company dedicated to developing and delivering cost-effective, high-quality RIS, PACS and Teleradiology solutions for our clients around the world. The complete lines of PowerServer and Gateway products offer radiology workflow solutions that meet the demanding needs of fast-paced radiology facilities of all sizes by streamlining workflow, improving patient care and providing referring physicians with real-time access to patient images and reports. Our solutions are designed for trouble-free installation and ease-of-use so your practice is up and running in the shortest time possible. Since each of our PowerServer products are interconnected in features and capabilities, as your company grows, our solutions will grow with you.