Integrated DICOM Gateways

Secure, compressed, rules-based image transmission.

eRAD®
RadNet Technology Solutions

eRAD's Send Servers supplant VPNs and the standard DICOM gateway for fail-safe connectivity at remote and distributed sites.

eRAD takes DICOM gateways a step further. Our Send Server is a dedicated, compact appliance that enables HIPAA-compliant, secure image acquisition and sending from remote or disparate sites. Instead of a complex, unreliable VPN, the Send Server manages the encrypted sending of studies with advanced features, such as auto-notification and auditing of send/receive activity, mobile radiology support and study logging (which logs the handshake that confirms a successful send).

Speed and security via encryption and compression
Beyond the power of a standard gateway, eRAD's Send Servers encrypt and compress data to deliver with speed and security.

Persistent sending on any bandwidth
Even sites with unstable bandwidth can be confident about data transmission, since the Send Server keeps transmitting until all data-packets are confirmed and logged. Thus, for failed transmissions the whole study doesn't need to be resent, only the missing data—which speeds transmission and reduces network traffic.

Rules engine and queue management in the gateway
Easy to define and change, rules govern which studies are sent to which servers (i.e., studies can route based on modality, body part, referring MD or any other validator or combination of validators). This streamlines workflows and increases productivity. Email or text notifications can pop up when new or certain types of studies arrive. Queue management can enable STAT cases to jump to the head of the line for faster transmission.

Rules-based sending means that users can opt to send STAT cases first or to send only certain types of studies based on modality, body part, referring MD or any other validator or combination of validators.

Mobile radiology support
Load a Send Server onto a laptop to connect radiology services directly from a mobile unit. A wireless connection becomes a secure transport to the main system, so you don't have to wait to upload studies later. Document scanning, CD burning and patient data can be accessed immediately.

Encryption
Data is transferred securely—inside and outside the enterprise.

Compression
Users define when and how data is compressed, for efficient and streamlined transfer across the network.

Persistence
Remote sites with unstable bandwidth still get their data. Missing data is retransmitted until all data is confirmed as received.

Global Worklist
Studies and workflow are governed by a common worklist, shared throughout the enterprise.

Rules-based Pre-Fetch
It is easy to define rules to govern which studies are sent to which radiologists.

Data Coercion
Legacy and non-compliant data can be managed so studies, independent of their source, are normalized.

Streaming
Studies can be streamed real-time to avoid lengthy download times.

Roles-based Access
Configure the system to provide access to images based on profiles tailored to a user's preferences, specialty, schedule, location, etc.
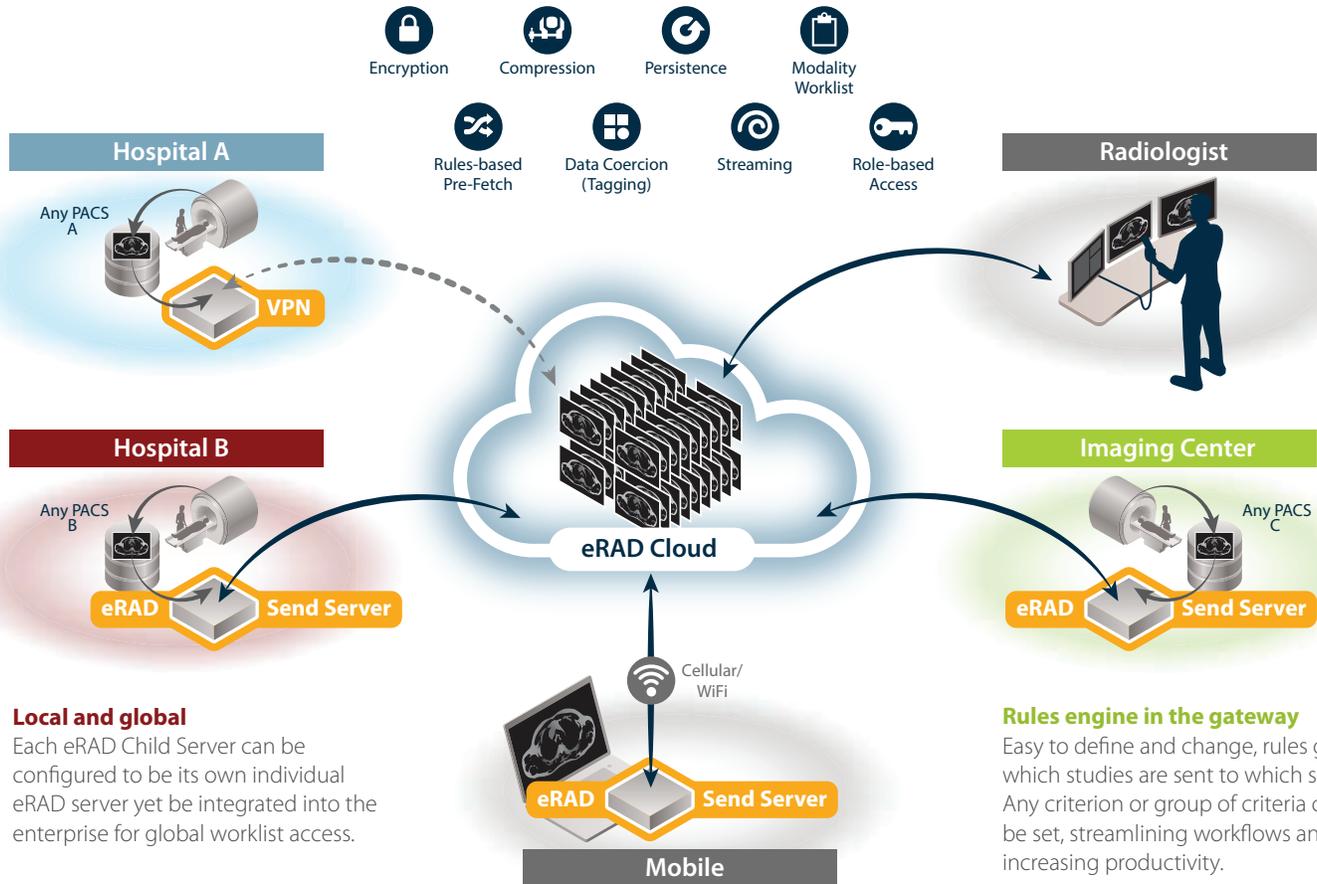
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Sophisticated traffic control

eRAD employs sophisticated technology to ensure data is transferred securely, efficiently, and intelligently—so that the data and images are accessible wherever, whenever and however the enterprise requires.

Persistent sending on any bandwidth.

Remote sites with unstable bandwidth still get their data. Missing data is retransmitted until all data is confirmed has received.

Encryption   Compression   Persistence   Modality Worklist

Rules-based Pre-Fetch   Data Coercion (Tagging)   Streaming   Role-based Access

Hospital A

Any PACS A

VPN

Radiologist

eRAD Cloud

Hospital B

Any PACS B

eRAD   Send Server

Imaging Center

Any PACS C

eRAD   Send Server

Cellular/ WiFi

eRAD   Send Server

Mobile

Local and global

Each eRAD Child Server can be configured to be its own individual eRAD server yet be integrated into the enterprise for global worklist access.

Rules engine in the gateway

Easy to define and change, rules govern which studies are sent to which servers. Any criterion or group of criteria can be set, streamlining workflows and increasing productivity.

Mobile radiology support

Load a Send Server onto a laptop to connect radiology services directly from a mobile unit. A wireless connection becomes a secure transport to the main system, so you don't have to wait to upload studies later.