Workstation Pre-Fetch

eRAD®
RadNet Technology Solutions

Simple, sophisticated, rules-based image delivery.

Images can be ready before you are. eRAD technology not only pre-fetches relevant priors from third-party systems, it can also pre-cache studies—pull certain studies for certain radiologists, according to customer rules, and have them waiting at specified local workstations for faster access. With studies ready, eRAD keeps productivity high.

Pre-fetching
eRAD goes beyond the standard pre-fetch of relevant priors based on patient name or MRN; eRAD users can be very granular about which data is considered relevant and pull those priors from other PACS and third-party DICOM archives. Vendor-neutral pre-fetching means that radiologists not only get the best patient information quickly but also that expensive and time-consuming data migrations can be avoided. Data can simply be pre-fetched from a legacy system instead of migrated. The wait time for priors is slashed from hours or days to minutes, so radiologists can focus on patient care.

Pre-caching
eRAD's powerful and highly configurable rules engine allows users to pre-cache images to their local workstation in advance of reading. Without this technology, images must be streamed in real time over the network, which isn't always practical due to limitations in bandwidth, study size and volume. Rules govern which radiologists get which studies, and those studies are sent to specified local workstations so that clinicians can begin reads immediately. The rules engine is easy to manage, and any conceivable rule can be created and changed without complexity.

Pre-fetch from third-party systems
eRAD PACS dynamically exchanges data with third-party systems, enabling more powerful pre-fetching as well as avoidance of expensive data migrations.

Resource optimization
Make use of idle bandwidth while reading / reporting a study. Images can be pre-cached in the background to enable faster access. Increased study sizes can be managed with existing bandwidth.

Configurable rules for pre-fetching and pre-caching
Images can be pulled or pushed based on modality type, user, referring physician, STAT status, body part and many other identifiers. eRAD supports multiple, user-defined rule sets.

Immediate loading of studies for remote reading
Studies can be pre-cached to workstations in advance of reading, reducing or eliminating the latency associated with image streaming. Faster reads translates into increased productivity.

Under the Hood

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

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

Access to Priors
Technology allows access to relevant priors—from legacy systems—without costly migrations.

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 all studies, independent of their source, are normalized.

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

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

eRAD
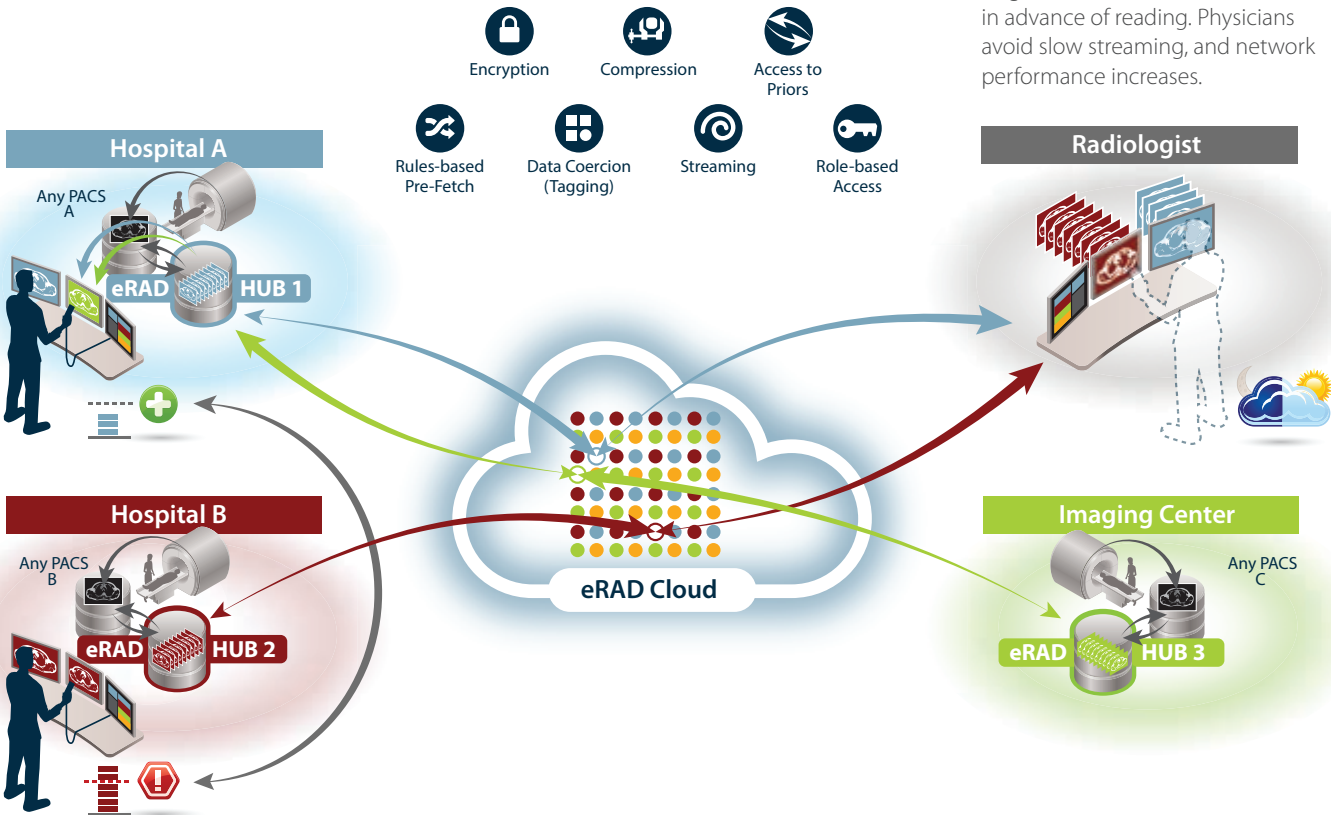RadNet Technology Solutions

Vendor-neutral fetching

Data can be retrieved from other systems instead of migrated. The wait time for priors is slashed from hours or days to minutes, so radiologists can focus on patient care.

Sophisticated traffic control

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

Ready before you are

eRAD technology not only pre-fetches relevant priors from third-party systems, it can also pre-cache studies—pull certain studies for certain radiologists, according to custom rules, and stage them on the local workstation in advance of reading. Physicians avoid slow streaming, and network performance increases.

Encryption   Compression   Access to Priors

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

Hospital A

Any PACS A

eRAD HUB 1

Hospital B

Any PACS B

eRAD HUB 2

eRAD Cloud

Radiologist

Imaging Center

Any PACS C

eRAD HUB 3

Study data in the cloud

eRAD cloud servers redirect access to locally hosted data, streamlining data transfers across the enterprise. Image data is distributed and accessed according to intelligent rules when it's most efficient and necessary.