

SYNAPSE® VNA



Bring the full power of an image archive to your providers.

Industry-leading interoperability. Analytics-based architecture. Intuitive and comprehensive provider workflows.

SYNAPSE®
Enterprise Imaging

FUJIFILM
Value from Innovation



EXPERIENCE THE UNPARALLELED POWER OF A TRUE IMAGE ARCHIVE.

When it comes to making informed patient care decisions, providers often consider their electronic health record (EHR) as an essential resource. [These systems provide reliable and comprehensive patient health information in real time](#), with [75%](#) of providers reporting that their EHR allows them to deliver better patient care. Many prominent EHRs also contain basic native image-capture and storage solutions to help complete the full clinical picture. Because of this functionality, EHRs are often misguidedly considered to be alternatives to vendor-neutral archives (VNAs).

While the initial concept of an EHR-based image-capture and storage solution may sound compelling, these applications often lack certain critical capabilities. Today's providers need a solution that supports access, control, and management of all clinical content from across the enterprise, regardless of the generating source, file format, or siloed storage system. They also must provide extensive third-party integrations and intuitive clinical workflows that drive more collaborative, efficient, and thorough care decisions. The industry-leading, three-time Best in KLAS award-winner [Synapse® VNA](#) is that solution.

Click on the six fundamental features below to learn how they set Synapse VNA apart:

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EXTENSIVE IMAGING INTEROPERABILITY

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EXTENSIVE IMAGING INTEROPERABILITY



Imaging interoperability is critical for connecting the complete picture of patient health. Relying on an EHR-based image-capture and storage solution requires care teams to take inventory of their department's image- and media-generating devices, as well as the file formats they create, and assess if the EHR can support those devices and formats.

Synapse VNA powers imaging interoperability by integrating more specialties, devices, and data than any other image-capture and storage solution. Modern industry standards and API features supported by Synapse VNA include:

DICOM

- o The international standard to transmit, store, retrieve, and display medical imaging information.
- o Widely adopted throughout the enterprise, spanning numerous specialties, imaging devices, and display applications. Send and receive images with or without an order.
- o Store all files in native DICOM part 10 format.

DICOMweb

- o Highly secure, high-performance RESTful version of DICOM.
- o QIDO-RS and WADO-RS to query and retrieve objects.
- o Direct access to required images.
- o Supports user authentication for secure access to restricted images, such as VIP or abuse-stricken patients.

HL7 FHIR

- o RESTful evolution of HL7.
- o Supports create, read, update, and delete interactions for Document Reference objects.
- o Allows exchange of non-DICOM objects with EHRs and other systems.

XDS

- o Accepts data from multiple XDS sources.
- o Connects to multiple Affinity Domains.
- o Publishes any VNA content to the XDS Registry for access by XDS consumers.

RESTful API

- o Retrieves departmental patient worklists and update status.
- o Creates patients and folders; uploads non-DICOM content and metadata.
- o Comprehensive search support and content retrieval.

SCALABLE STORAGE THROUGH IMAGE LIFECYCLE MANAGEMENT (ILM)

While the EHR may be able to facilitate the capture workflow of some departments, the limited capabilities of the back-end technology can impede its ability to support archive scalability and security. Synapse VNA's patented ILM technology optimizes storage utilization while keeping data safe. This state-of-the-art infrastructure provides:

- Scalability:** Stores and manages more than 40 billion imaging objects from thousands of facilities around the world to meet the needs of any-sized institution.
- Flexibility:** Connects imaging from a variety of encounters-based departments, including POC ultrasound (POCUS), dermatology, ophthalmology, and wound care, as well as large video uploads and streaming.
- Adaptability:** Automatically establishes storage and distribution protocols for any content asset, regardless of the source or format, and seamlessly integrates with any EHR, PACS, CVIS, and RIS.
- Longevity:** Avoids storage vendor lock-in and remains current with the latest advances in storage technology through Synapse VNA's rich storage abstraction layer.

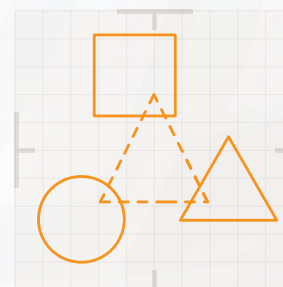
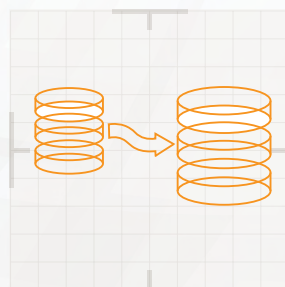
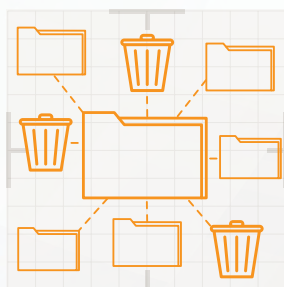
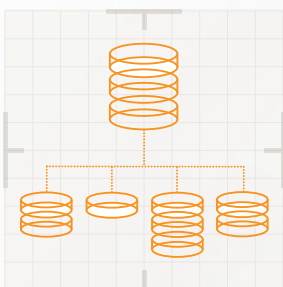




COST CONTAINMENT THROUGH ILM

Today's EHRs typically store all imaging data in a single, all-encompassing bucket, which is traditionally the most expensive storage tier. You can help contain storage costs by pursuing a technology that performs at scale. Synapse VNA's robust ILM spans all content types and helps optimize your investment through the following features:

- Storage optimization:** Moves content to more affordable storage tiers as content ages throughout its lifecycle. For example, you can transition from fast, expensive SSD drives to slower, inexpensive spinning disks, as well as object or cloud storage tiers.
- Final disposition:** Leverages policy-based content deletion based on your organization's data retention policies. This helps to both manage storage costs and reduce risk.
- Simplified storage refreshes:** When it's time to upgrade or refresh your storage infrastructure, let Synapse VNA's ILM subsystem do the work for you. Simply attach your new storage and lifecycle content from the old storage platform to the new one.
- Diminished vendor dependence:** Supports virtually all storage vendors and technologies. Also avoids the potential for storage vendor lock-in if/when your EHR falls behind the latest advances in storage technology.



DATA DISCOVERABILITY

The ability to capture imaging and media content at the point of care and associate it with the patient record is vital, but it only represents part of a complete solution. The data must also be easily searchable and discoverable. Providers rely on data discoverability within the comprehensive archive to deliver optimal patient care. Specialists and researchers rely on it to explore and identify data across a patient population, and business leaders need access to data analytics, utilization metrics, and storage consumption by specialty and throughout their enterprise.

By offering attribute tags, body-site mapping, and metadata associations, Synapse VNA simplifies content searches and enhances data discoverability for all stakeholders. The result is expedited workflows, more holistic care delivery, and enhanced business operations.



ANALYTICS-BASED ARCHITECTURE

As healthcare institutions expand their enterprise imaging strategies, it becomes increasingly important to understand storage utilization and the associated costs. Using an analytics-centric solution that provides a detailed breakdown of key platform metrics is fundamental to validating the business use case.

Synapse VNA's analytics-based architecture offers the following in-depth insights at the departmental level:

Utilization and volumetric analysis: Enables you to easily segment imaging and multimedia content by specialty, department, or facility to identify how many images, videos, PDFs, etc., are being created in each department across the enterprise.

Complete transparency: Optimizes visibility of storage consumption by department to help facilitate budgeting and cost allocation.

Trend analysis: Enables storage forecasting and planning at the facility, department, and enterprise level.





INTUITIVE WORKFLOWS

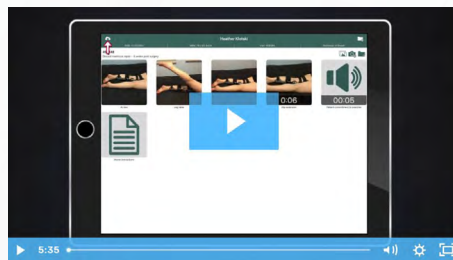
Image-capture and storage workflows must seamlessly support the natural workflows of providers in each unique department. This is especially important when an image-capture and storage solution is introduced to a service line for the first time.

[Synapse VNA's Connex Workflow Solutions](#) can help simplify workflow by automating the ingestion of content, associating it with the patient record, and making it immediately available to those who need it. Specific EHR-based image-capture and storage workflows include:

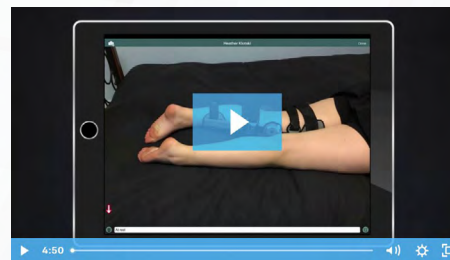
Connex Mobile: Mobile app for capturing photos, videos, audio recordings, and notes.

Connex Web: Web portal to upload any clinical content; it also acts as a catch-all tool when other automated methods are unavailable.

Providers can select a patient from the department-specific point-of-care (POC) worklist or launch the solutions with patient context directly from the EHR.



Connex Mobile Worklist Integration



Connex Mobile EHR Integration

Connex Mobile and Web also support configurable forms for the documentation of observations, notes, and attributes at the point of care. Sensitive and restricted workflows are also available for VIP and abuse-stricken patients.



As the centerpiece of [FUJIFILM Healthcare Americas Corporation's](#) comprehensive [Synapse Enterprise Imaging portfolio](#), Synapse VNA provides access, control, and management of all clinical content from across the enterprise, regardless of the generating source, file format, or siloed storage system. With extensive imaging interoperability, scalable storage, an analytics-based architecture, and intuitive clinical workflows, the three-time Best in KLAS solution brings the full power of an image archive to providers across your organization.

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Enterprise Imaging

Contact us to learn more about the industry-leading Synapse VNA.

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In 1936, we launched our healthcare business with x-ray film, and we haven't stopped innovating since.

For more than 80 years, we've continued to transform ourselves so we can help healthcare organizations like yours make the world a healthier place. As the industry advances, we'll continue adapting — finding new ways to apply our unique technologies to solve preeminent healthcare challenges.

We'll never stop iterating and developing digital solutions that progress radiography, endoscopy, ultrasound systems, healthcare IT, pharmaceuticals, and regenerative medicine — and the Synapse[®] Enterprise Imaging portfolio represents this commitment to continuous innovation.

For more information, visit

SynapseVNA.com

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