

SYNAPSE[®] RADIOLOGY PACS

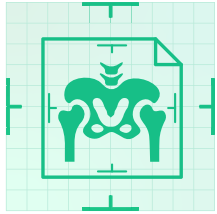
A new standard for enterprise imaging management.

On-demand access. Secure design. Holistic patient record.



SYNAPSE[®]
Enterprise Imaging

FUJIFILM
Value from Innovation



SIX CHALLENGES. ONE SOLUTION.

Today's dynamic healthcare landscape presents greater clinical, technological, and regulatory challenges that affect radiology, specialty imaging departments, IT, and the overall patient experience:

Click on the challenges below to learn more.

1

SCALABILITY →

Clinical and IT administration are faced with increasing medical imaging demands due to enterprise consolidation and unique specialty department requirements.

2

SECURITY →

Medical facilities continually strive to manage ever-growing protected health information (PHI) and combat the risk of a data breach.

3

END-USER SUPPORT →

Radiology, cardiology, point-of-care ultrasonography, and other specialty departments are aligning their imaging requirements, resulting in the need for unified clinical tools within a single diagnostic viewer.

4

DEMAND FOR ANYWHERE ACCESS →

As data sets continue to grow, imaging departments are under pressure to make data secure and readily available, both within the organization and on the go.

5

ONGOING IT DEPLOYMENTS AND UPDATES →

Mergers and acquisitions continually introduce legacy imaging systems and a variety of viewing platforms to medical facilities, resulting in a surge in IT needs.

6

INNOVATION →

To meet the demands of today's rapidly evolving healthcare environment, providers need solutions that support their decision-making today while preparing them for a future driven by artificial intelligence (AI).

Synapse® Radiology PACS—part of Fujifilm's innovative, AI-enabled Synapse® Enterprise Imaging (EI) portfolio—is the solution to these challenges. Its next-generation, secure server-side technology enables access to massive data sets using a zero-download viewer capable of proficiently supporting your enterprise imaging needs.

EXPERIENCE COMPREHENSIVE ENTERPRISE IMAGING ARCHITECTURE

Meet ever-changing radiology and enterprise healthcare needs, encourage interdepartmental collaboration, and support an AI-driven future with the server-based, interoperable Synapse Radiology PACS platform.

Interoperable.

Seamlessly share data throughout the Synapse Enterprise Imaging portfolio, including Cardiology PACS, VNA, Enterprise Viewer, 3D, and Image Exchange, and integrate with third-party vendors to promote the free and secure flow of imaging information.

Cross-departmental support.

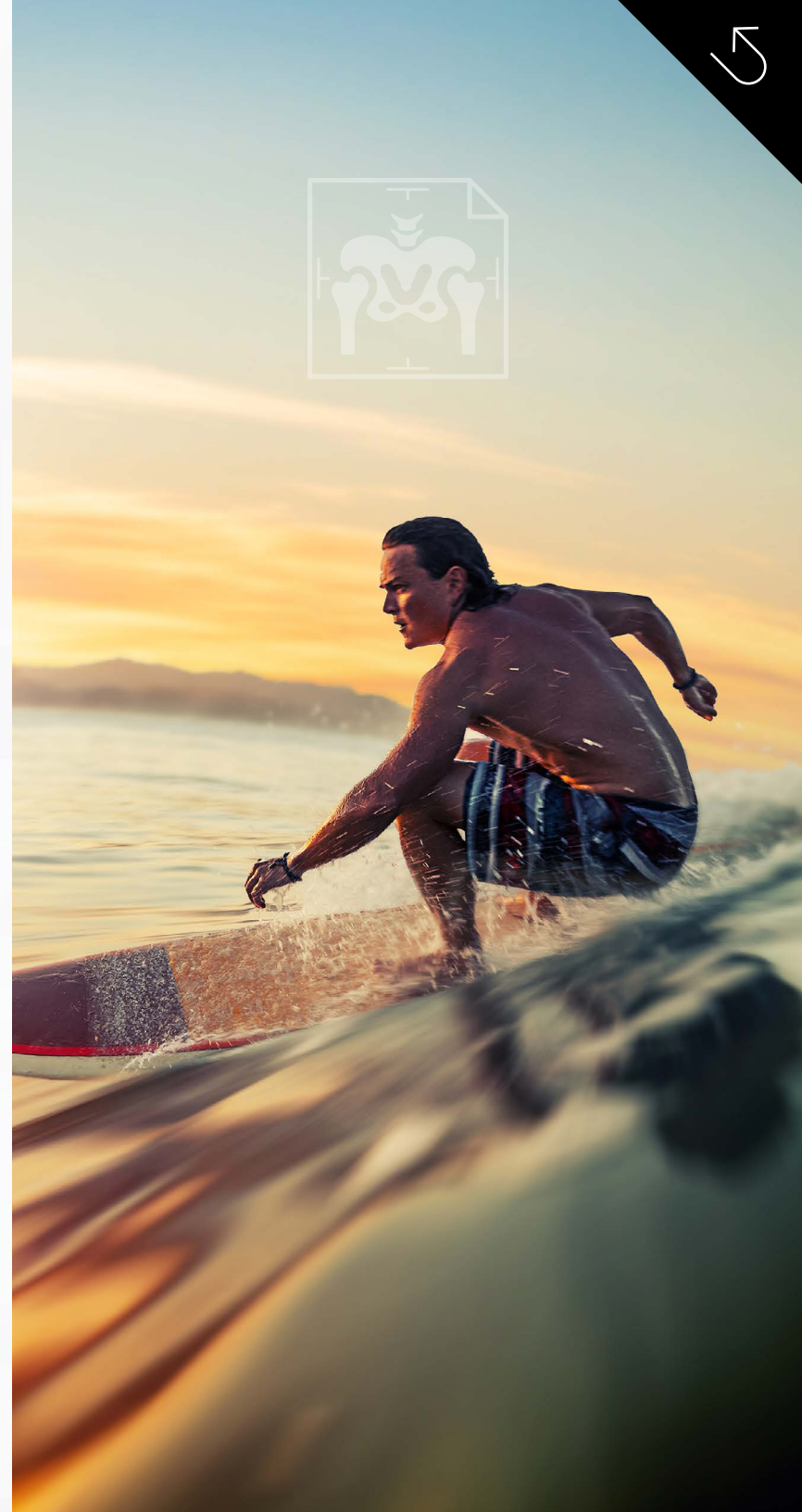
Manage unique imaging needs beyond radiology and cardiology to display widespread DICOM and non-DICOM imaging data.

AI-ready.

Transform workflows and prepare for an AI-driven future through convergence with Fujifilm's AI-enabled platform, **REILI**®.

EXTEND SYNAPSE PACS COLLABORATION AND DECISION-MAKING CAPABILITIES WITH SYNAPSE® COMMUNICATIONS.

This enhanced suite of integrated technologies alerts users of imaging outcomes that require action, escalation, or closure; provides closed-loop communication between the radiologist and emergency department; identifies and assigns tasks that require follow-up; and much more.



BOLSTER SECURITY OF SENSITIVE PATIENT DATA

Keep protected health information (PHI) secure, safeguard against data loss and breaches, and circumvent the need to store data on workstations with the server-side design of Synapse Radiology PACS.

Zero-download viewer.

Eliminate the need to download software to display images.

Zero footprint.

Keep PHI storage off the workstation to reinforce security and support HIPAA compliance.

Flexible scalability.

Run Synapse Radiology PACS on Synapse® Cloud Services infrastructure or on your own dedicated cloud, hardware, or virtualized environment, allowing for scalable deployments without risking vulnerability.



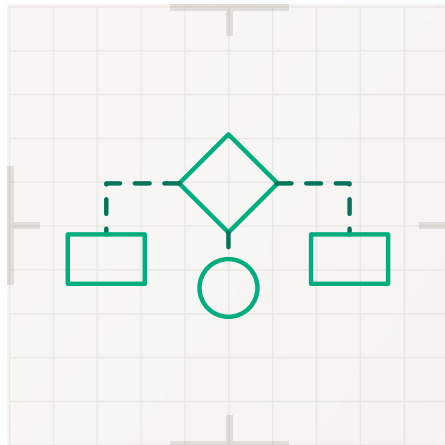
SYNAPSE® CLOUD SERVICES FOR IMAGING INFORMATICS IS YOUR TRUSTED PARTNER.

Rest assured knowing that clinical information is hosted in secure data centers and managed by a dedicated team of IT and Fujifilm-certified professionals that protects your data from unexpected events.



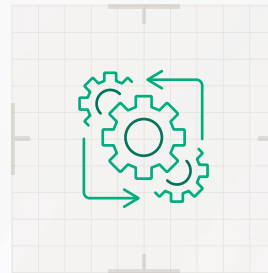
ENHANCE PRODUCTIVITY AND EFFICIENCY WITH STATE-OF-THE-ART CLINICAL TOOLS

Meet the needs of even the most advanced end user with Synapse Radiology PACS. Support 3D or mammography (MG) tomosynthesis, the need to view studies on a global worklist, the management of workflow interruption, and much more, all within a single diagnostic workstation.



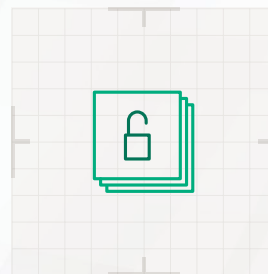
Complete workflows on a single workstation.

Includes global worklists, native MG tomosynthesis capabilities, MIP/MPR/Fusion, and inherent 3D tools.



Efficient operations.

Alleviate workflow interruptions with preserved display states, a customizable icon menu for frequently used tools, ergonomic operations, active overlays serving as shortcuts to features and tools, and Synapse® Chat for improved care team communication and collaboration.



Unfettered imaging access.

Unlock access to the entire patient imaging record, regardless of the department in which it was acquired. From point-of-care ultrasonography in the emergency department, to surgery video from the operating room, to cath studies from the cardiovascular lab, all images can be accessed and displayed within the Synapse Radiology PACS diagnostic viewer.

MANAGE LARGE DATA SETS MORE EFFECTIVELY

Manage and transfer even the most extensive imaging data sets with the server-based image-rendering architecture and intrinsic computing power of Synapse Radiology PACS.

Server capacity.

Prepare images for display using server power instead of workstation resources.

Server-side bandwidth.

Move large data sets fluidly across servers to prepare images for display and provide on-demand or subscribed content delivery directly to workstations.

Mitigation of network limitations.

Use optional caching tools to overcome bandwidth and latency constraints experienced with sizable datasets.



SEAMLESSLY DEPLOY AND UPDATE SOFTWARE

Experience the IT benefits of a zero-download viewer designed to support any sized facility, especially growing enterprises.

Decreased workstation support needs.

Synapse Radiology PACS has few-to-no requirements to download the software to workstations.

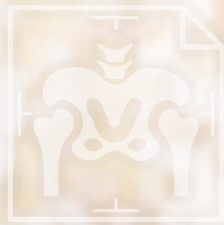
Simplified deployment.

Grant users access to the PACS application, enabling them to open the tool directly from a web browser.

Automatic workstation updates.

Following a PACS upgrade on the server, workstations instantly apply the software revision.

Note: Viewer functionality in Synapse Radiology PACS is largely the same for all users in any location.



AI-READY FOR WHAT LIES AHEAD

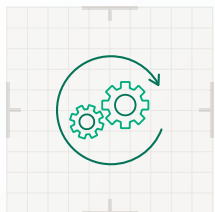
Fujifilm is dedicated to continuous innovation and advancing imaging technology now and in the future. With the introduction of the AI-enabled platform **REILI**, Fujifilm is merging its world-renowned imaging legacy with today's cutting-edge AI innovations.

Some of the AI research-and-development activities underway include:



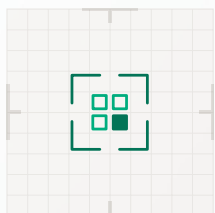
Computer-aided detection.

Reduces time of image interpretation and supports radiologists' clinical decision-making.



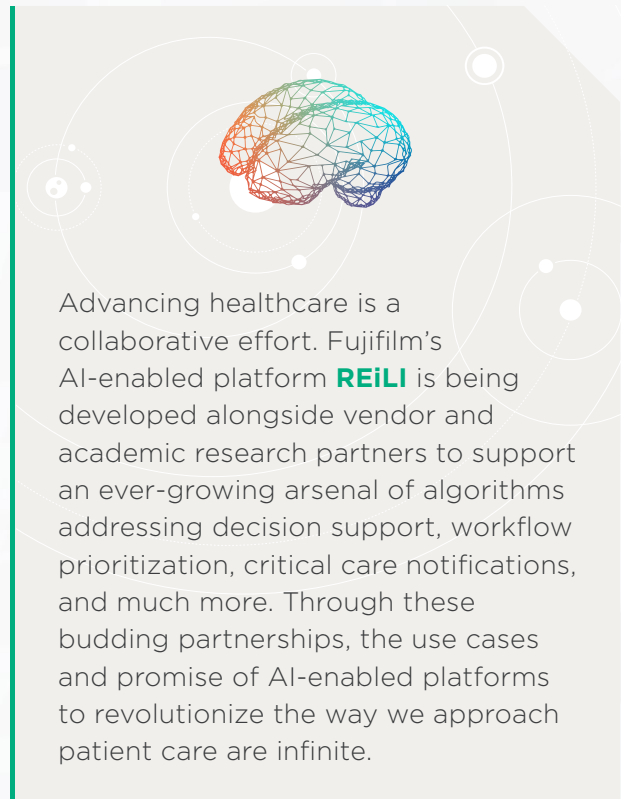
Workflow support.

Provides optimal study prioritization based on findings, notifies care teams of critical results, and automates report population. Through these functionalities, care teams can take the consequential actions needed to help save lives.

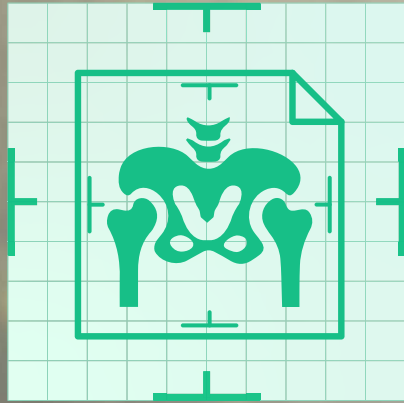


Region recognition.

Accurately recognizes and consistently extracts organ regions, regardless of deviations in shape, presence or absence of disease, and imaging conditions.



Advancing healthcare is a collaborative effort. Fujifilm's AI-enabled platform **REILI** is being developed alongside vendor and academic research partners to support an ever-growing arsenal of algorithms addressing decision support, workflow prioritization, critical care notifications, and much more. Through these budding partnerships, the use cases and promise of AI-enabled platforms to revolutionize the way we approach patient care are infinite.



BRING A NEW STANDARD FOR ENTERPRISE IMAGE MANAGEMENT TO YOUR ORGANIZATION

To support the entire care organization, PACS solutions must evolve to function as a comprehensive enterprise imaging system. Growing enterprises need a solution that is conducive to product growth and interoperability, extending well beyond the capabilities of a traditional PACS and unifying enterprise imaging data to support more-informed imaging decisions. **Synapse Radiology PACS** is that solution.

SYNAPSE[®]
Enterprise Imaging

Radiology PACS | Cardiology PACS | 3D
VNA | Enterprise Viewer | Cloud Services
Information Systems | Artificial Intelligence

**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

[SynapsePACS.com](https://www.synapsepacs.com)

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