

■ SYNAPSE® CARDIOLOGY PACS

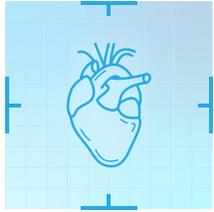
A new standard for enterprise imaging management

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



SYNAPSE[®]
Enterprise Imaging

FUJIFILM
Value from Innovation



SEVEN CHALLENGES. ONE SOLUTION.

Today's dynamic healthcare landscape presents greater clinical, technological, and regulatory challenges that affect cardiology, 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 must always strive to manage ever-growing protected health information (PHI) and combat the risk of a data breach.

3

END-USER SUPPORT →

Cardiology, radiology, point-of-care ultrasound, and other specialty departments are aligning their imaging requirements, creating the need for unified clinical tools within a single diagnostic viewer.

4

DEMAND FOR ANYWHERE ACCESS →

As datasets 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

STRUCTURED REPORTING →

The need to manually populate increasing volumes of clinical information into reports creates a bottleneck on cardiologists' clinical workflows.

7

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



1

EXPERIENCE COMPREHENSIVE ENTERPRISE IMAGING ARCHITECTURE

Meet ever-changing cardiology and enterprise imaging needs by supporting interdepartmental collaboration and providing access to the complete cardiology patient picture with the server-based, vendor-neutral Synapse Cardiology PACS platform.

Complete cardiac care

Access imaging data from a variety of cardiology service lines and modalities, such as:

- Adult Echocardiography: Including Stress Echo and Stress ECG
- Pediatric and Fetal Echocardiography
- ECG Management
- Non-Invasive Vascular
- Nuclear Cardiology
- Cardiac Catheterization
- Electrophysiology
- Invasive Peripheral Vascular
- Cardiac Computed Tomography
- Cardiac Magnetic Resonance

Interoperable

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

Vendor-neutral

Leverage existing modalities spanning multiple cardiac departments to optimize investments.





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

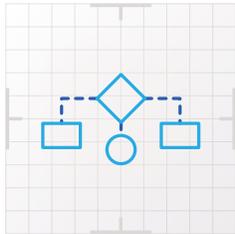


SYNAPSE® CLOUD SERVICES IS YOUR TRUSTED PARTNER FOR IMAGING INFORMATICS.

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.

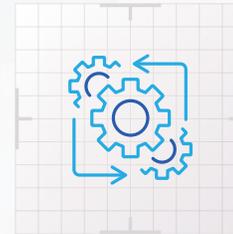
ENHANCE PRODUCTIVITY AND EFFICIENCY WITH STATE-OF-THE-ART CLINICAL TOOLS

Meet the needs of even the most advanced end user with Synapse Cardiology PACS. The solution pairs inherent Synapse® 3D tools with robust third-party quantification applications to power advanced visualization, diagnostic, and reporting capabilities. Users can also view studies on a Global Worklist to mitigate workflow interruption.



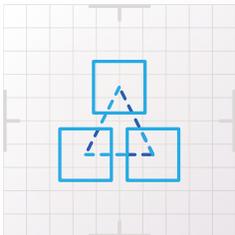
Complete workflows on a single workstation

Streamline workflow, image review, and reporting for a variety of cardiology departments for more efficient care delivery.



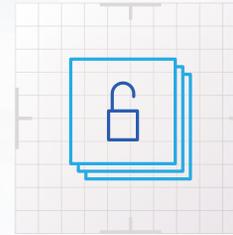
Efficient operations

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.



Dynamic integrations

Synapse Cardiology PACS works with a variety of devices for transferring images, measurements, and clinical data. It also integrates with numerous advanced quantification applications, including left ventricular (LV) strain, 3D volumes, Transcatheter Aortic Valve Replacement (TAVR) planning and coronary analysis.



Unfettered imaging access

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

MANAGE LARGE DATASETS AND ENHANCE CARE COLLABORATION

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

Server capacity

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

Server-side bandwidth

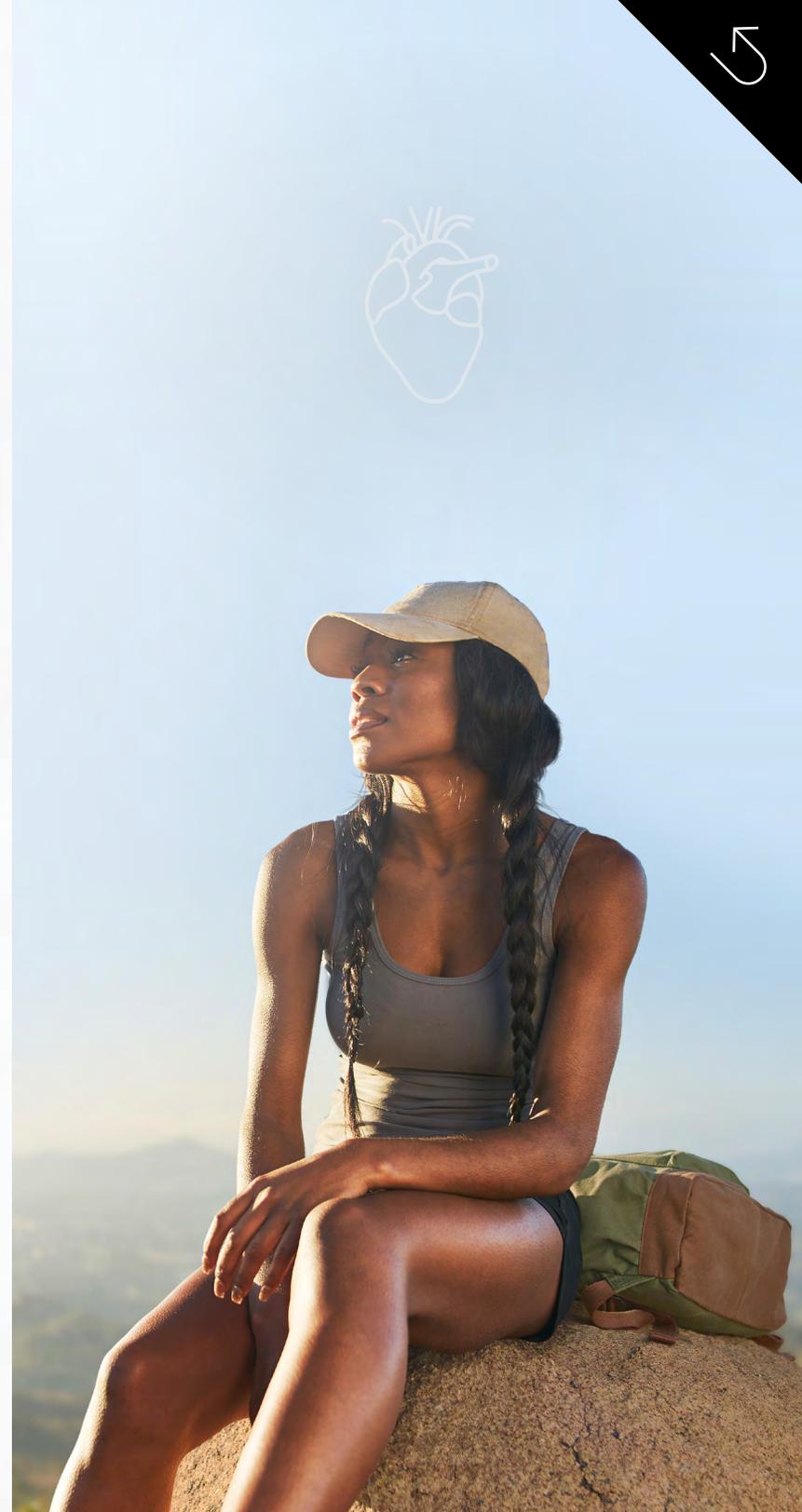
Move large datasets fluidly across servers to prepare images for display and provide on-demand or subscribed content delivery directly to workstations.

Mitigation of network limitations

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

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 to strengthen collaboration between physicians; identifies and assigns tasks that require follow-up; and much more.





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

Simplified deployment

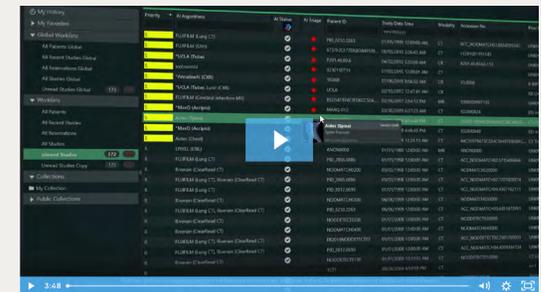
Grant users access to the PACS application, enabling them to open the tool directly from a web browser.

Automatic workstation updates

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

ONE PLATFORM. UNLIMITED POSSIBILITIES.

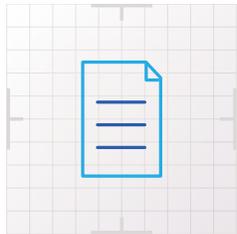
With Synapse 7x, true enterprise imaging is possible. Powered by robust server-side technology, the next-generation visualization platform converges the functionalities of **Synapse Radiology PACS, Cardiology PACS, VNA, 3D Advanced Visualization,** and **Fujifilm's AI-supported platform REILI®** on one common viewer.



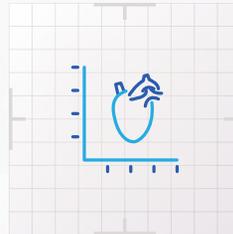
AUTOMATE ADVANCED REPORTING CAPABILITIES

Free cardiologists of reporting bottlenecks by instantly populating measurements, data, and procedural documentation into structured reports for cardiovascular procedures with Synapse Cardiology PACS Advanced Reporting.

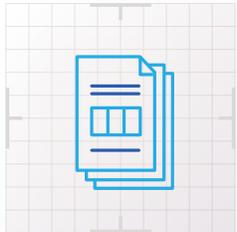
Automated clinical reporting features include:



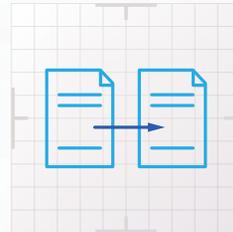
Entry of persistent patient-level data



Automatic summary based on quantitative results and diagrams



Population of procedural documentation and measurements



Built-in macros for clinical statement entry and access to previous report content for serial studies

In addition to communicating information related to the patient and procedure, Synapse Cardiology PACS Advanced Reporting improves abstraction quality and charge capture processes while ensuring regulatory compliance.

AI-READY FOR WHAT LIES AHEAD

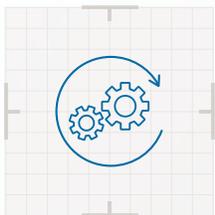
Fujifilm is dedicated to continuous innovation and advancing imaging technology now and in the future. With the introduction of the AI-enabled platform [REILI](#), Fujifilm is merging its world-renowned imaging legacy with today's cutting-edge AI innovations.

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



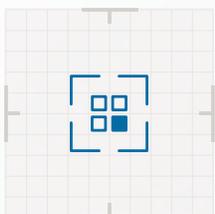
Computer-aided detection.

Reduces time of image interpretation and supports physicians' 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.

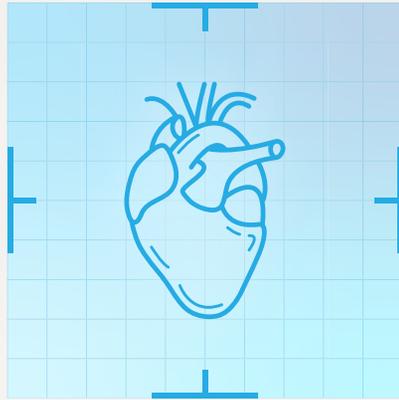


Region recognition.

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, cardiology PACS solutions must evolve to function as a comprehensive enterprise imaging system. Growing enterprises need a solution that supports interoperability, third-party integrations, and continuous product evolution.

For cardiologists, that evolution includes advanced reporting capabilities that help to support more informed clinical decision making. [Synapse Cardiology PACS](#) is that solution.

SYNAPSE[®]
Enterprise Imaging

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

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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

[SynapseCV.com](https://www.synapsecv.com)

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