

Synapse **SOLUTIONS**

Issue 1 - 2013

Synapse Solutions Product Guide

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Useful Articles

One source for innovative, integrated solutions

With the second-most widely used PACS system in the world, Synapse has become synonymous with state-of-the-art PACS. Today, Fujifilm's Synapse portfolio of solutions provides the essential components for medical imaging practices, including:

- Synapse PACS
- Synapse RIS
- Synapse VNA
- Synapse 3D
- Synapse Mobility
- Synapse Cardiovascular

All Synapse products offer seamless integration for single sign-on access to a range of radiology, cardiology and business management tools. Consistent interfaces across the Synapse line of products smooth the transition from one set of tools to another, creating a familiar, efficient workflow for users. As part of Fujifilm's commitment to advancing the capabilities of clinical professionals and facilities, current Synapse clients benefit from continual system upgrades.

Synapse is designed to improve the experience of users, whether working in a hospital or outpatient environment, or working remotely. and Fujifilm's proprietary communication protocols allow for fast data transfer, meeting the highest requirements for HIPAA compliance, while making software upgrades hassle-free. Synapse help manage burgeoning document and imaging archives. incorporates requirements to help practices qualify for EHR-certification. Both and have passed the rigorous tests established by the U.S. Department of Defense (DoD) to become DIACAP certified.

to explore our latest innovations.

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Meeting your evolving needs

The industry standard in picture archiving, Synapse PACS is seamlessly integrated with all Synapse software. The first web-based picture archiving system continues to raise the bar on image management: Synapse PACS is currently the second-most widely used PACS system in the world.

A single data-management system

Using a single integrated database, Synapse PACS provides web-based access to data from multiple departments and locations, even those using disparate RIS and HIS systems. Scalable implementation allows the same software to serve the needs of an outpatient imaging center with 30,000 exams per year, or a multi-server conglomerate with several million.

One, patient-focused worklist

Within Synapse PACS, CommonView™ consolidates all worklists into a single patient-focused worklist for sites with multiple identification schemes or separate Synapse systems. This powerful tool is ideal for situations where multiple facilities contribute to a patient's imaging exam history; CommonView gives radiologists access to every exam performed on a patient across multiple facilities.

Automatic synchronization of patient lists from the Synapse database:

- Reduces data entry time
- Increases accuracy
- Ensures patient information is secure, up-to-date

High quality imaging

The industry standard in picture archiving, Synapse PACS is seamlessly integrated with all Synapse software. The first web-based picture archiving system continues to raise the bar on image management.

Seamless integration

The Synapse portfolio of products is fully integrated to offer a truly streamlined user experience. Integration eliminates the need for separate workstations and multiple logons. Access not only MIP/MPR tools, but the full range of Synapse 3D capabilities, without leaving PACS. Synapse Mobility puts Synapse PACS at your fingertips even when you work from your iPad, smartphone or laptop. Integration between Synapse Cardiovascular and Synapse PACS grants cardiologists and clinicians who work with cardiology images access to the same ease-of-use and workflow-boosting benefits.

Synapse PACS Integration with Synapse 3D

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High quality imaging

The industry standard in picture archiving, Synapse PACS is seamlessly integrated with all Synapse software. The first web-based picture archiving system continues to raise the bar on image management.

Robust data security

Powerful data security is built into the architecture of all Synapse products. Not only does the entire Synapse product line meet the highest HIPAA standards, Synapse PACS and Synapse Cardiovascular are DIACAP-certified, having passed rigorous tests established by the U.S. Department of Defense.

Download Data Sheets:



Does Meaningful Use Apply to You?

Who is eligible for incentive payments?

You may qualify for incentives if at least 10% of your claims submitted to CMS are not coded as Inpatient or Emergency Room encounters. In other words, at least 10% of your claims must be either:

- 11 – Office
- 20 – Urgent Care Facility
- 22 – Outpatient Hospital
- 24 – Ambulatory Surgical Center (free standing)
- 49 – Independent Clinic

Note that a physician who qualifies for incentives also qualifies for future penalties for non-compliance.

Find out how [Synapse Solutions](#) can help the 90% of radiologists who are eligible for Meaningful Use incentive payments streamline workflow, reduce clinical error and improve the quality of care with certified EHR tools.

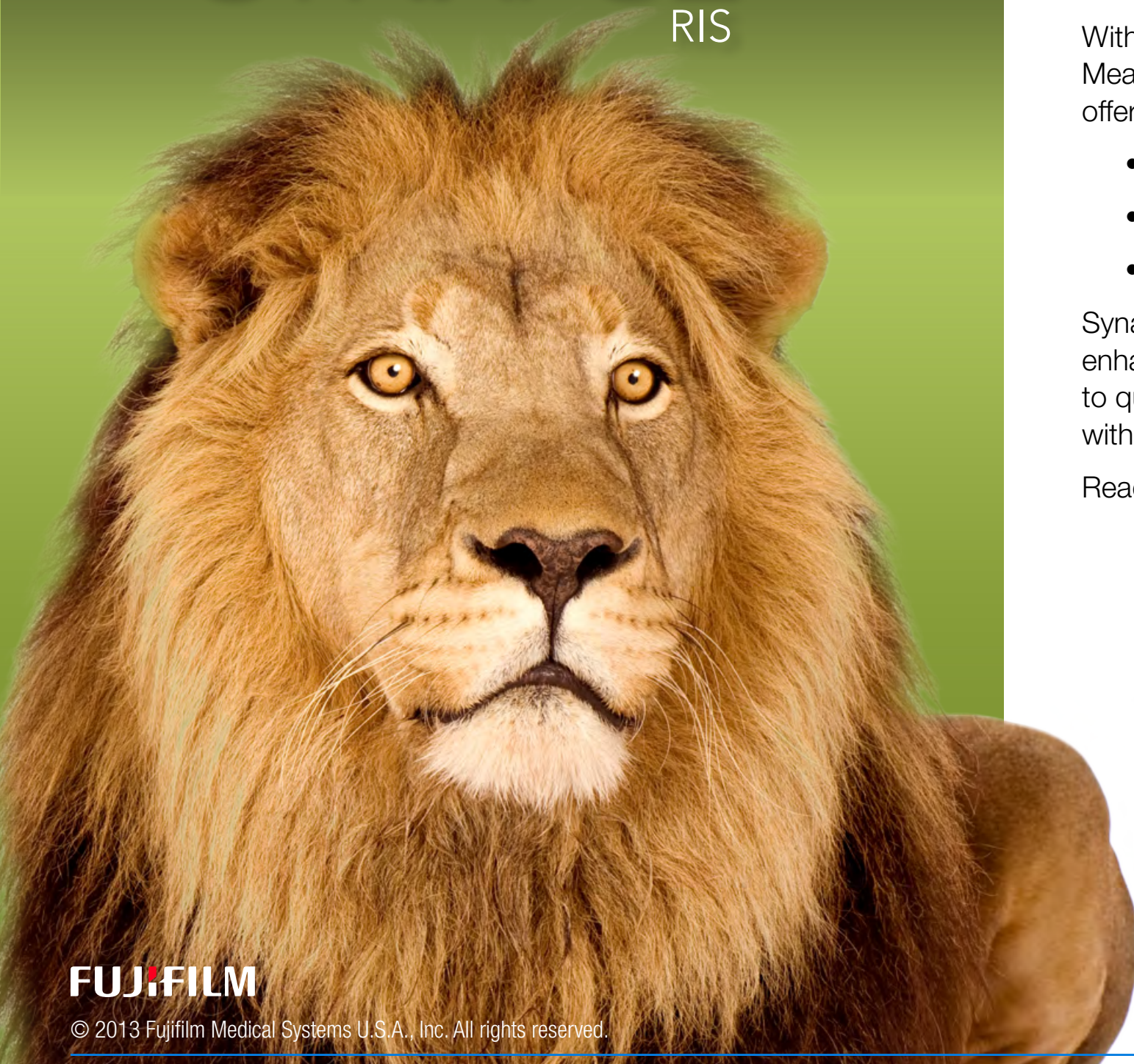
Meaningful Use is part of the Medicare and Medicaid EHR Incentive Program

Designed to improve the health outcomes, patient engagement, care coordination and the efficiency of the healthcare system, Meaningful Use provides incentive payments to eligible professionals and hospitals that use a certified EHR program in a meaningful way.

Read the



Don't Settle. Pounce.
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RIS



Capture the benefits of Meaningful Use with Synapse RIS

Synapse RIS is the most advanced, most comprehensive web-based radiology management solution available.

With complete EHR-certification for Meaningful Use in radiology, Synapse RIS offers the data and records to support:

- Clinical decision-making
- e-Prescribing with automated refills
- Best practice alerts

Synapse RIS is packed with tools that enhance clinical accuracy and allow providers to qualify for Federal EHR incentives, all from within the RIS/PACS system.

Read the



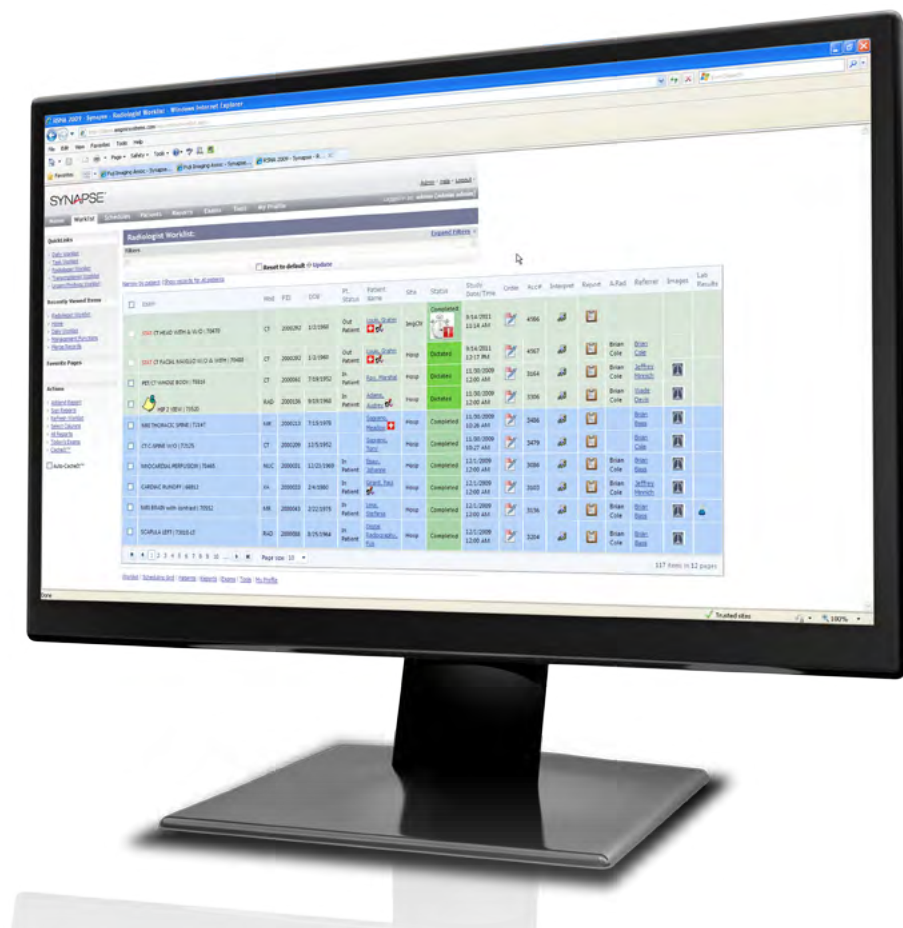
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RIS

Why use Synapse RIS as your EHR solution?

Synapse RIS v6 integrates this information with all the other areas of your radiology practice, including:

- Scheduling and order entry
- Mammography tracking and reporting
- Transcription tools
- Radiologist reporting tools
- Eligibility verification
- Pre-certification notification
- Critical results notification
- Referring physician portal
- Management reporting and financial tools
- And much more

To learn more about how adopting Synapse RIS can make your practice eligible for Meaningful Use, visit the



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RIS



Enhance productivity and profitability

Streamline your front office and radiology tasks while harnessing the power of a full set of business management, and tools. Comprehensive features of Synapse RIS meet the diverse needs of your department:

Front Office – An intuitive, worklist-driven interface that allows for drag-and-drop scheduling and automated precertification.

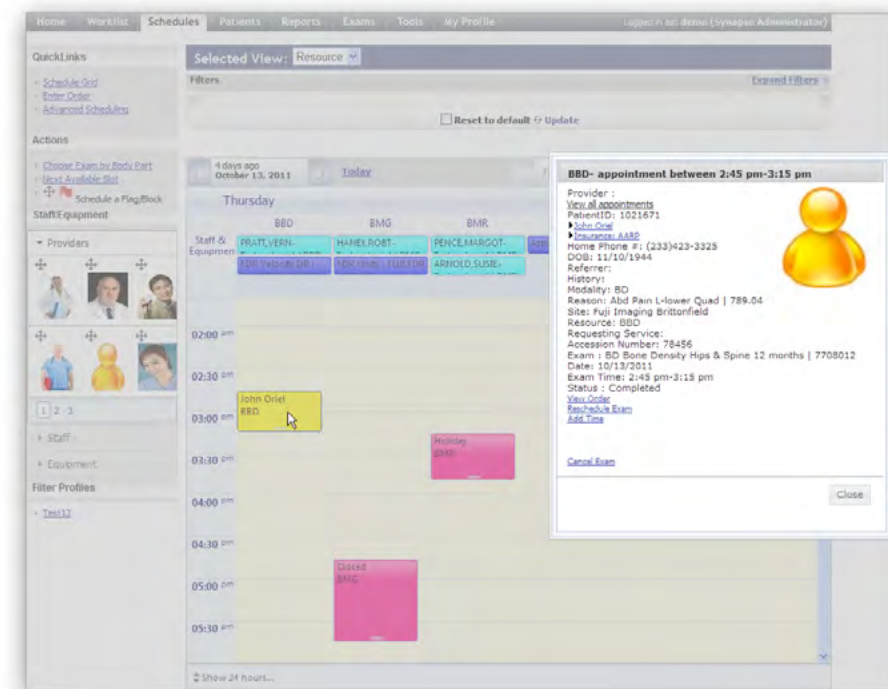
Radiologist – Seamless integration with Synapse PACS plus productivity-enhancing features such as peer review capabilities and built-in dose management tools.

Reporting – Integrated voice recognition and digital dictation, electronic signature with batch signing, and dose management tools that help you manage radiation exposure.

Referring Physician Portal – Practical and secure access for referrers, tools for scheduling and group-based viewing, and online access to study requests, images and reports.

Business Management Tools – The Assignment Engine uses a proprietary algorithm to help ensure that each exam is read by the best candidate. Other tools include inventory tracking, audit tracking and referrer activity reports, in custom or predefined formats.

Download



Teleradiology made easy

Synapse offers a turnkey, fully comprehensive, managed teleradiology solution including software, hardware, data center hosting, system management, and even disaster recovery and off-site archiving.

Front Office Radiologist Reporting Referring Physician Portal Synapse Financials System Management

Assignment Engine

Multiple Report Distribution Methodologies

Synapse RIS allows you to easily export billing data as a flat file for easy import into existing billing systems. Fujifilm uses an industry-leading interface engine for each customer. Fujifilm Synapse has been successfully integrated with every major EMR, HIS, CPOE and practice management software available in the market.



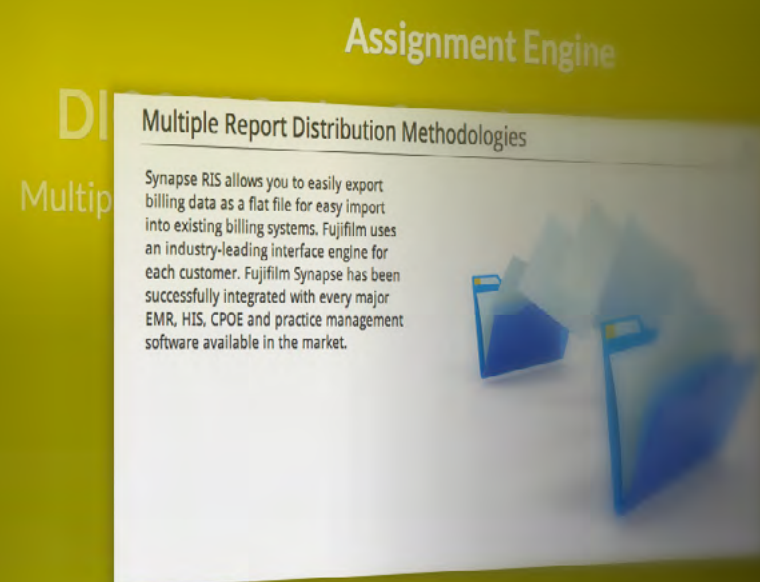
Security and speed

Teleradiology is built directly into the Synapse RIS architecture, allowing for fast and secure consolidation of data across multiple facilities.

- **DICOM Order Creation** – Creates and normalizes orders based on the receipt of images into Synapse PACS to streamline radiology workflow.
- **Assignment Engine** – Uses proprietary application intelligence to ensure that each exam is read by the best candidate.
- **Multiple Report Distribution Methodologies** – Allow for easy export of billing data for import into existing billing systems.
- **Integration** – Fujifilm Synapse has been successfully integrated with every major EMR, HIS, CPOE and practice management software available on the market.

Teleradiology made easy

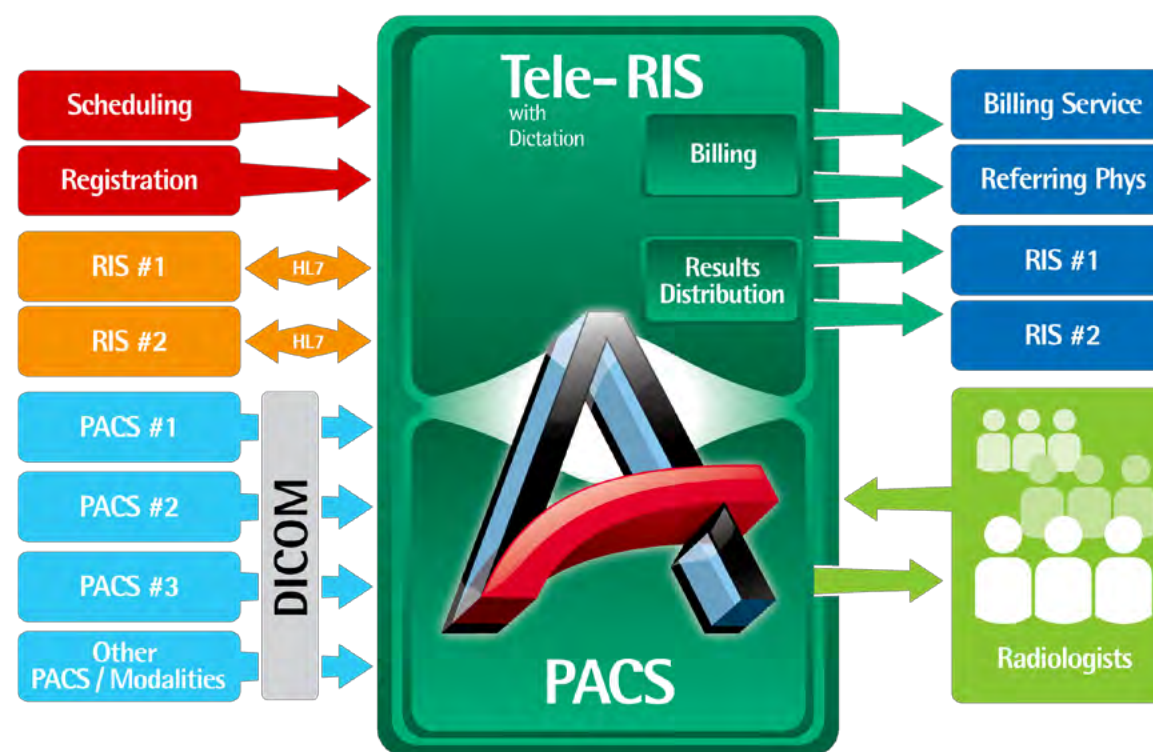
Synapse offers a turnkey, fully comprehensive, managed teleradiology solution including software, hardware, data center hosting, system management, and even disaster recovery and off-site archiving.



Facility portal

The facility portal provides robust, secure online access to all facilities using your service. Synapse RIS features are filtered to display only relevant patients and resources.

- **Automated Task Creation** customizes workflows to specific needs without custom development or requests
- **Instant Messaging** with text, voice and video chat capabilities
- **Discrepancy Reporting**
- **Critical Results and Urgent Findings** closed-loop reporting



Essential productivity tools

An effective and efficient billing solution is crucial to the long term success and profitability of a radiology practice group or department.



Next generation practice management

Synapse Financials is an optional module within Synapse RIS. These highly productive business management tools speed tracking and processing.

- **Synchronized support tables** reduce billing and reimbursement times, and increase efficiency and accuracy of billing by eliminating discrepancies in fields, interface delays and failed messages
- **Real-time demographic updates** automatically send updates to front and back offices, eliminating the need for manual updates
- **Universal document access** allows front and back office staff to share the same document repository, eliminating the need to switch between applications
- **Real-time eligibility verification** reduces inefficiencies and eliminates phone verification

Customizable for enhanced efficiency

To help improve your facility's productivity and overall profitability, Synapse Financials offers extensive custom interfacing features.

New data integration capabilities for faster, more accurate reports

The industry standard in picture archiving, Synapse PACS is seamlessly integrated with all Synapse software. The first web-based picture archiving system continues to raise the bar on image management.

Synapse Cardiovascular 5.0 with Advanced Reporting

Now, create reports faster and more accurately with Synapse Cardiovascular. New modules for cardiac cath and Invasive PV workflows allow facilities to customize their own report templates, with new design tools that offer a variety of options to choose from.

Driven by a newly-engineered data integration engine, the powerful mapping capabilities allow the system to create highly-detailed data summaries to assist with peer review, clinical best practice evaluation and even business operations.

Automated functions speed workflow for more consistent reports:

- Data from the hemodynamic system pre-populates reports
- Graphical “carry over” feature brings prior procedures into current report
- Auto-summary statements reduce manual entry time required fields
- One Click Normal completes

Advanced Reporting for cardiac catheterization

New data integration capabilities for faster, more accurate reports

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Full-featured for all specialties

Synapse Cardiovascular is a complete, web-based set of interpretation, analysis and reporting tools designed for cardiologists in a variety of clinical areas, including nuclear cardiology, vascular ultrasound, ECG management, echocardiography and cardiac catheterization. Streamlined workflows help to accelerate reporting and reduce clerical error, increasing both efficiency and accuracy for cardiology departments

Secure anytime, anywhere access

Synapse Cardiovascular is designed from the ground up for HIPAA compliance, with an architecture that protects against data loss by offering full logging, reporting and auditing. Web-based virtualization capabilities using both VMware and Citrix facilitate anytime, anywhere, secure access.

Synapse Cardiovascular achieved DIACAP certification for data security and is authorized to connect to government servers. DIACAP certification for data security requires passing rigorous tests established by the Department of Defense.

New data integration capabilities for faster, more accurate reports

The industry standard in picture archiving, Synapse PACS is seamlessly integrated with all Synapse software. The first web-based picture archiving system continues to raise the bar on image management.

Full integration for faster workflows

Vendor- and hardware-neutral, Synapse Cardiovascular integrates with the widest variety of device vendors in the market. Synapse Cardiovascular seamlessly integrates with the full Synapse portfolio of products, offering users easy access to the image management and analysis capabilities of  and . Backed by Fujifilm's renowned service and support, Synapse users benefit from increased uptime and technology that maintains peak performance.

Synapse 3D integration with Synapse Cardiovascular

Discover a new way of seeing!

Optimize workflow with Synapse 3D's advanced diagnostic tools for radiology. Synapse 3D is fully integrated with  and  with one-click access and a consistent user interface. Access from any Synapse client with Fujifilm's fast, secure proprietary communication protocol.

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3D

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Advanced imaging tools when you need them

Synapse 3D is a robust suite of advanced imaging tools. Toolsets are groups of tools based on clinical specialty:

Base Toolset includes:

- 3D Viewer
- PET-CT Viewer
- Fusion Viewer
- And 11 other tools

Advanced Radiology Tools include:

- CT Brain Analysis
- Liver Analysis
- Lung Analysis
- And 4 other tools

Advanced Cardiology Tools include:

- Coronary Analysis
- Cardiac Fusion
- Calcium Scoring
- And 3 other tools

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Discover a new way of seeing!

Optimize workflow with Synapse 3D's advanced diagnostic tools for radiology. Synapse 3D is fully integrated with _____ and _____ with one-click access and consistent user interface. Access from any Synapse client with Fujifilm's fast, secure proprietary communication protocol.

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3D

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Intuitive, customizable workflow

Designed with input from clinicians, Synapse 3D makes clinical workflow more efficient with a set of user-friendly, customizable tools.

- Typical clinical workflow follows left-to-right, top-to-bottom tool layout
- One-click volume and linear measurements
- Work in a second tool without leaving the first with Tool Linking
- Easily create snapshots
- Results save directly to report

Specialists, researchers, or clinicians with unique patient care needs can customize Synapse 3D's extensive array of tools according to their specific needs, including:

- Choose from multiple layout templates
- Create custom toolbars, templates and short-cut keys
- Tailor color palettes and color thresholds

Synapse 3D feature overview

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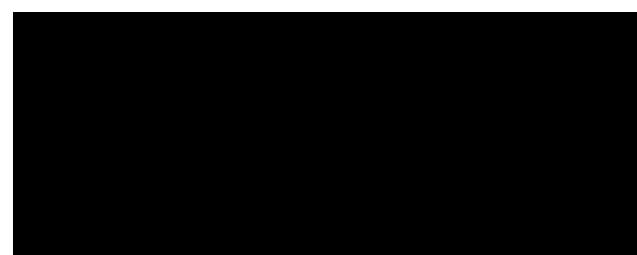
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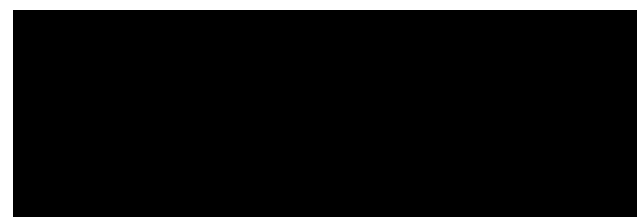
Integration with Synapse PACS and Synapse Cardiovascular

Integration means you can open Synapse 3D directly from either Synapse PACS or Synapse Cardiovascular without using a separate workstation or login.

Synapse 3D integration with Synapse PACS



Synapse 3D integration with Synapse Cardiovascular



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Enterprise capable

Synapse 3D was designed and developed by Fujifilm and is supported by Fujifilm's award-winning technical assistance team.

- Fully developed by Fujifilm: robust, integrated, efficient
- Vendor neutral
- One-vendor solution
- One company, one support team
- Streamlined implementation, training and support
- True full-featured thin-client, even on low-specification terminals
- Fast, proprietary communication protocol - 260% faster than our previous version
- Meets HIPAA compliance requirements
- Scalable and flexible: Serially-connect additional servers for additional users
- Supported DICOM storage for CR, CT, MR, PET, NM, XA, US, US Multi-frame, SC, Enhanced CT, Enhanced MR
- Server-side rendering
- 32- or 64-bit compatible
- VMware option available
- Secured pass-through authentication between Synapse Cardiovascular and PACS to Synapse 3D allows customizable user profile

Synapse 3D in the news:

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Thin-client Technology

All Synapse solutions use full-featured thin-client technology. Thin-client computing makes use of a server to take on most of the data intensive and computational workload, while the terminal or workstation provides a smaller proportion, for example, the user interface.

In the case of Synapse, this has several benefits: maintaining security protocols can be greatly simplified, since most of the security functions run only on the central server. Terminals or workstations don't need to be high-performance computers since they computing functions are performed at the server level. Users customized settings are saved at the server level and are available to the user at any workstation. Thin-client technology makes it more feasible for clinicians to work remotely (as with), and makes it possible to build security into the architecture of the software. Finally, thin client streamlines software updates, as most of the computing is taking place on a single server.



Mobile Synapse Applications

Synapse mobility and collaboration

View and share images on mobile devices. Synapse Mobility and Collaboration offer the flexibility to securely access patient images from an iPad®, iPhone®, Android™, smartphones, and web browsers running either Mac or PC.

Remote viewing and real-time collaboration

Synapse Mobility provides anywhere, anytime access to Synapse studies, whether they are from Synapse PACS, Synapse Cardiovascular or Synapse 3D, and includes powerful and familiar features.

Collaboration allows physicians to easily collaborate on patient cases in real-time, from multiple locations, using a web browser or a mobile device.



Synapse mobility and collaboration

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Synapse PACS, Cardiovascular and 3D with gestures

Advanced gesture technology allows users to control images with their fingertips. Synapse Mobility makes full use of the capabilities of the iPad: pinch to zoom images, scroll through images by dragging, and use gestures to change window level and pan.

High quality 3D layouts are included, with MIP/MPR layouts, magnification, and cine.

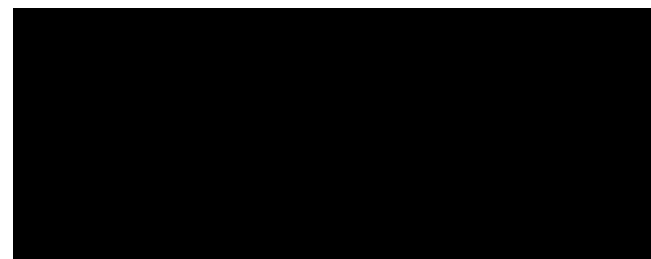
Mobility can also be launched in any web browser on a Mac or PC computer.

Additional web browser features include:

- Annotations
- Measurements
- Region of Interest (ROI)
- Freehand
- Point
- Angle

Download Data Sheet:

Synapse Mobility



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Real-time image sharing with Collaboration tools

Collaboration enables real-time physician collaboration on a specific study from multiple locations. An email invitation initiates the shared viewing session. Images are viewed in a web browser using Synapse Mobility. Multiple participants can view, manipulate and scroll images, from a desktop computer, smartphone or tablet.

Synapse Collaboration

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Manage Your Growing Archive

Healthcare departments create more and more patient data each year. Conventional data management systems silo data by department: each department operates its own individual storage and archive system, often creating data incompatible with the systems of other departments. With many discrete archiving systems, collaboration between departments becomes difficult. Data migration to more efficient servers, or implementing new archiving processes becomes costly and unwieldy. Compartmentalization of archived data further impedes care center growth as managing multiple systems and data types drains IT resources.

Fujifilm's single-enterprise vendor-neutral archive (VNA) answers these challenges with a cost-effective solution that unifies departments and data types, making it easy for multiple departments to store and access data.



Enhanced image management

Synapse VNA offers clinicians efficient image management that meets the workflow needs of multiple departments, while enhancing IT operations with the latest technology available.

Single-enterprise archive

Synapse uses a hardware- and vendor-independent, single-enterprise archive (VNA). Synapse VNA is a flexible image management system that:

- Streamlines IT operations
- Reduces unnecessary costs
- Encourages collaboration among departments and clinicians

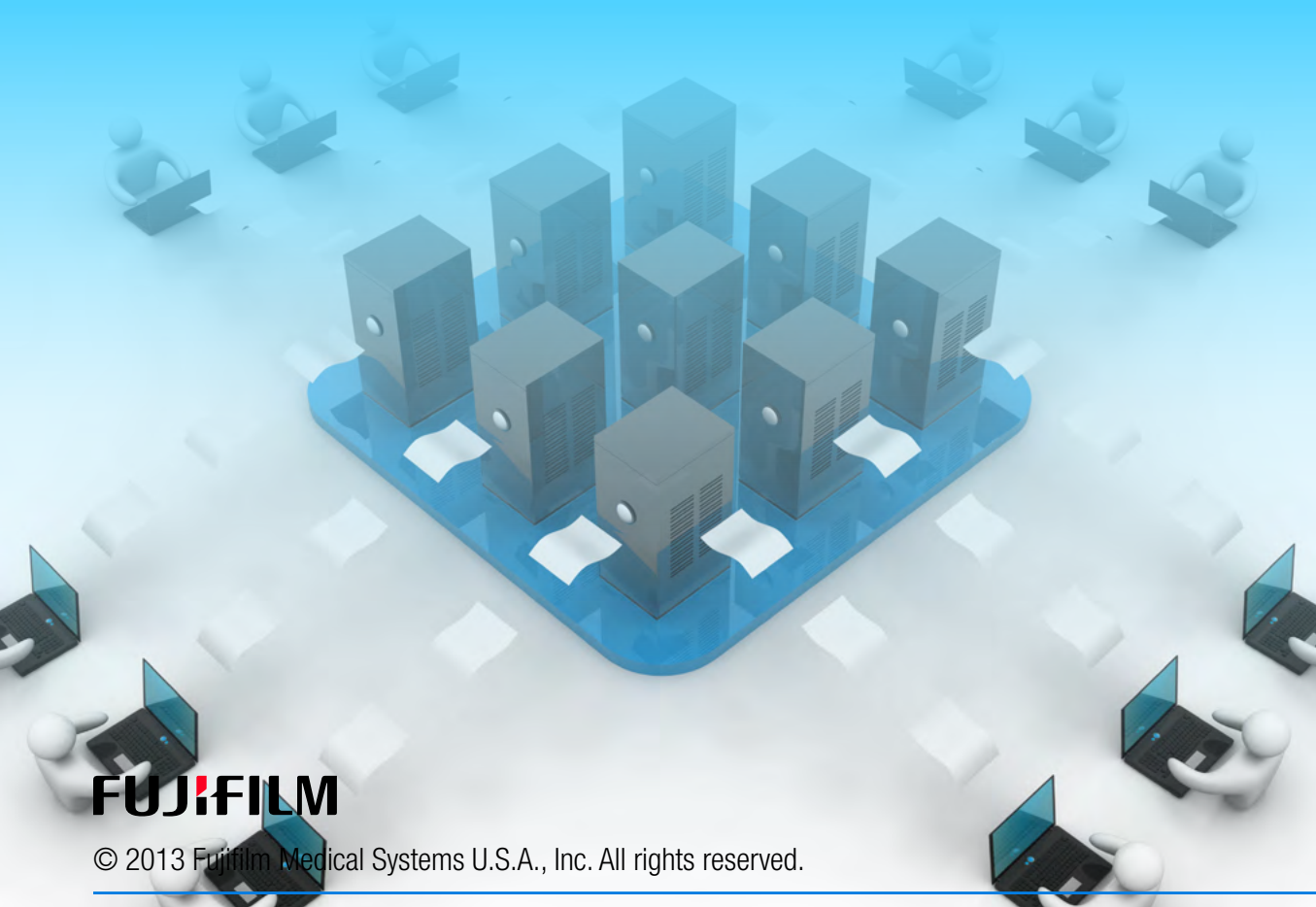
Instead of identifying the data as standards- or non-standards-based, Synapse VNA technology catalogs and maintains the data in a patient-centric model, allowing a single access point for EMRs and other software. The flexible, fluid system organizes data in tiers, making relevant data readily accessible, while backing up older data on cost-effective storage devices. Synapse VNA has unique capabilities when used with Synapse applications, including AON, CommonView and Power Jacket.

Synapse VNA in the news:

Synapse Cloud Services

Better data for better care

Synapse Cloud Services are comprised of a set of turnkey, high-reliability solutions that include software, systems management, PACS and RIS hosting and disaster recovery, each one customized to the specific environment of the user.



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Virtualization capabilities

Synapse uses Citrix and VMware virtualization technology to enable fast, secure access to applications and to consolidate servers, streamlining IT processes and delivering exceptional performance and availability.

Citrix extends access to Synapse:

- Allows clinicians to work from home, since Synapse is available from any Synapse workstation, even in remote locations
- Protects patient data by meeting HIPAA compliance requirements

VMware ThinApp™ helps facilities to increase efficiency and reduce expenses:

- Consolidates servers
- Automates software management operations
- Reduces planned and unplanned down time

[Learn more about Citrix](#)

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