

Fujifilm's Synapse® Vendor Neutral Archive and Inspirata's Dynamyx

Bringing digital pathology into the image archive.

[FUJIFILM Medical Systems U.S.A., Inc.](#) is a leader in enterprise imaging, with its industry leading vendor-neutral archive (VNA) at the center of its comprehensive [Synapse Enterprise Imaging portfolio](#). [Inspirata](#) offers [Dynamyx™](#), an open, vendor-agnostic workflow solution for digital pathology. Now Fujifilm and Inspirata have partnered to bring a pioneering technology to healthcare enterprises around the world.

Designed to seamlessly integrate with [Synapse VNA](#), Inspirata's Dynamyx software transports pathology images directly into the image archive to enhance the content pool of patient diagnostic evidence.

Fujifilm optimizes patient care with scalable, unified enterprise-imaging solutions that are designed to simplify image capture, management, storage, and distribution across healthcare institutions. By leveraging best-of-breed solutions for each unique enterprise-imaging workflow—including radiology, cardiology, enterprise imaging, and pathology, among others—clinicians benefit from increased efficiencies in their areas of expertise while dispersing their unique clinical proficiencies across service lines.

Personalized care and precision medicine initiatives start with seeing the full patient health picture. By adding **Inspirata's Dynamyx** digital pathology solution to **Synapse VNA**, institutions can seamlessly bring pathology into their imaging archives without engaging new vendors or performing system integrations and can achieve a unified enterprise-imaging strategy without compromising the workflows and expertise of each individual department.

An Overview of Inspirata's Dynamyx

Cancer is a complex disease that demands next-generation tools. Inspirata's new Dynamyx software enhances the pathology workflow by providing new channels and tools that improve clinical collaboration and workflow efficiency. Its open platform eases adoption challenges for cost-conscious organizations while helping to empower pathologists with trusted diagnostic evidence. Experience the future of pathology with this cutting-edge solution that seamlessly integrates with your lab and organization.



Web-based Exchange

To foster collaboration among care teams and provide anywhere-access to imaging, Dynamyx software leverages HTML5 technology to become a web-based application, enabling pathologists to:

- Remotely access cases, images, and worklists from a compatible browser without downloading an additional application.
- Share case files with varying permission levels:
 - ▶ Within your institution
 - ▶ With an outside pathologist to receive a second opinion
 - ▶ With colleagues for research or educational purposes
- Securely collaborate via password protection and trackable viewing histories.
- Avoid unnecessary costs by allowing labs to add eligible users without requiring additional workstations.
- Maintain the native installed client, allowing for trackball and dual-screen viewing support.

Synchronized Viewing with Real-time Collaboration

As cancer care becomes more complex, the value of collaboration and second opinions continues to grow. Dynamyx capitalizes on the versatility of connected technology to efficiently and securely enable pathologists to remotely collaborate in real time.

Pathologists can:

- Share expertise, in addition to an image or case, in real time with one or more collaborating users.
- Engage in peer-to-peer interaction across geographies by swapping control of the image, allowing any pathologist to highlight areas of interest while the others observe.
- Simplify the process of getting a formal or informal second opinion by eliminating the need to physically package and mail slides and case files.
- Communicate with peers by capturing collaboration notes in the Evidence Tray™.
- Enable remote care pathways and increase specialist access.

The Open Solution

As an open platform, Dynamyx enables users to choose or retain a scanning device that integrates with a common software workflow. The open platform allows pathologists to:

- Instantly deliver and load balance cases between users.
- Efficiently collaborate among institutions.
- Adopt a unified, network-wide workflow using the right scanning instrument for cases.
- Save costs by continuing to use existing scanners in conjunction with the Dynamyx solution.

Integration with an anatomic pathology lab information system (APLIS) is a critical component of a successful digital pathology solution. With Dynamyx, pathologists benefit from robust bidirectional APLIS connectivity that improves lab workflows and simplifies data management. This enhanced connectivity also helps to reduce manual work, case turnaround time, and administrative errors. By synchronizing data exchange, organizations can reduce duplication and transcription errors, improve laboratory tracking of specimens by transmitting case status updates, and minimize manual tasks by accepting attachments electronically.

Next-generation Case Management

The dual-screen capability of the latest Dynamyx software has reinvented case management workflow by accelerating processing time and optimizing ease of use and has helped establish Inspirata as a leader in intuitive pathology solutions.

This capability specifically allows users to:

- Instantly gain access to assigned cases.
- Easily organize work within customized folders.
- Quickly triage case size with visible slide count.
- Reduce search time with immediate access to patient data within a single view for clinical history, the Evidence Tray, and the Slide Tray.
- Easily access notes, comments, and slide information in the Evidence Tray.
- Search and sort through a case with keywords and other viewing options to quickly find information.
- Immediately access prior patient specimens without the need to pull archived glass slides.
- Compare historical cases side-by-side, which is ideal for surveillance and transplants.
- Employ bidirectional enterprise connectivity.



Advanced Image and Tissue Navigation

In light of increasing pathology caseloads, Dynamyx enhances slide viewing and management to reduce non-value-added work. This supports pathologists' efficiency while delivering a viewing experience that's not possible with physical slides.

Pathologists gain efficiencies by employing:

- TissueSync®: Reduces manual steps by auto-aligning an identified area across multiple stains.
- TissueDirect®: Reduces pan-and-zoom time while quickly navigating to tissue sections.

Tool-enhanced Image Viewing

The Dynamyx Viewer offers an array of features that enhance the pathologist's image review experience, including:

- Tools and algorithms for annotations, snapshots, and image adjustments. Any captured annotations, snapshots, or algorithm tables are stored in the Evidence Tray. The



pathologist can also add a comment to any post or a note to the slide.

- Contextual launch of the Viewer from the virtual Slide Tray so that the Viewer is displayed adjacent to the case information.
- Tray, Evidence Tray™, and Slide Tray, which eliminate toggling between multiple screens and enable immediate access to case and patient information while viewing a slide.
- Contextual launch of the Viewer from the Evidence Tray™, which saves time in multidisciplinary team meetings and training. Image disposition tools are also available to allow laboratory staff to complete quality reviews on images prior to releasing them to the pathologist.

An Overview of Fujifilm's Synapse VNA

To provide the highest quality care, clinicians across the enterprise need access to all patient images. This imaging interoperability is critical for diagnosis, treatment, follow-up, and care coordination. Synapse VNA connects imaging content from more specialties and devices than any other system to create a complete imaging and clinical record and support optimal patient care delivery.

Designed for true imaging interoperability, Synapse VNA captures, stores, and manages all clinical images and content spanning more than 30+ specialty departments, including digital pathology.

The award-winning solution provides:

- **Enhanced security:** Protects data as it is shared across the enterprise through a state-of-the-art, centrally managed IT platform.
- **Reduced costs:** Eliminates the need for costly future data migrations while supporting clinical workflow efficiency across all departments.
- **Simplified operations:** Connects and manages digital imaging infrastructure with the industry's most scalable and flexible enterprise storage solution.
- **Improved clinical collaboration:** Supports integrated care teams by allowing radiologists, pathologists, referring physicians, specialists, and patients to converse and collaborate on an active study.
- **Optimized patient care:** Simplifies sharing of all clinical content between IT systems, departments, and facilities to support higher-quality care delivery.
- **Minimized risk:** Centralizes IT governance of data to dramatically reduce the risk of data loss, theft, and HIPAA concerns.
- **Empowered physicians:** Breaks down the barriers between technologies and teams, allowing physicians to access the patient's holistic imaging and clinical record.



Improve Clinical Outcomes

In order to treat the whole patient, providers need to see the whole patient. Synapse VNA allows care teams to access, integrate, and share imaging content across the enterprise, helping to make holistic, comprehensive care possible.

- **Unified patient records:** Creates a single, patient-centric view across the entire care continuum.
- **Instant imaging access:** Provides access to patient images across a range of specialties directly through the electronic health record (EHR).
 - ▶ Through integration with Inspirata's Dynamyx, digital pathology images are also now securely stored in the VNA, eliminating the risk of lost slides for comparisons.
- **Robust imaging format support:** Allows unified viewing of both DICOM and non-DICOM images, including native PDF, video, and sound files; JPEG and TIFF images; and many more.
- **Multi-device imaging access:** Permits secure anytime, anywhere access to imaging content from any computer, workstation, or mobile device.
- **Standards-based workflows:** Extends standards-based workflows across clinical departments.

Optimize Operational Efficiency

Flexibility, scalability, and control are all essential for healthcare organizations to operate at peak performance. As the most scalable and flexible enterprise storage solution on the market, Synapse VNA instantly connects and manages digital imaging infrastructure across the enterprise.



- Scalability: Storing more than 30 billion imaging objects from thousands of facilities across six continents, Synapse VNA meets a range of enterprise needs, from single imaging departments to complex facilities with multiple sites and specialties.
- Flexibility: Connects imaging from a variety of departments, including pathology, point-of-care ultrasound, dermatology, ophthalmology, and wound care, to name a few. The solution also supports inherent image capture and direct image and video uploads to the EHR.
- Adaptability: Automatically establishes storage and distribution protocols and flawlessly integrates with any EHR, PACS, RIS, CVIS, and digital pathology solution.

Achieve Cost Savings

Organizations need to obtain maximum value from all types of diagnostic and treatment content—DICOM and beyond—at minimal cost. Synapse VNA manages and predicts associated storage requirements while supporting clinical workflow efficiencies across all departments.

- Reduced storage-management costs: Improves the information available to reduce the associated costs of various solutions and proactively predicts future storage needs.
- Standardized storage: Removes departmental storage silos and dependence on application vendors for storage additions.
- Simplified migration: Migrates historical data once, eliminating the need for costly future migrations.
- Decreased interface expenses: Reduces interface costs by using a shared archive platform.
- Diminished vendor dependence: Decreases costs associated with new or replacement PACS, lab, or archive purchases while increasing competitive bidding.
- Enhanced efficiency: A single, easy-to-use platform improves physician and front-line proficiency, helping to boost bottom line.



Synapse VNA and Inspirata's Dynamyx Integration

Healthcare enterprises rely on a number of IT solutions to capture, store, and manage patient health information. These systems often vary by facility, as well as by department. In order to connect healthcare departmental data between these siloed systems and allow clinical data exchange to assist in creating a complete view of the patient, enterprises need IT systems that easily integrate with one another. When it comes to imaging, a VNA can provide the integrations needed to support today's increasingly complex enterprise-imaging environment.

Integrating Dynamyx images and patient data, as well as additional imaging from across your enterprise, will enhance provider workflow and optimize patient care. For example, Synapse VNA's integration with Dynamyx can provide physicians with unfettered access to all patient images and records within your facility's infrastructure while allowing simplified data and management in the Synapse VNA application.

By adding the Dynamyx digital pathology solution to Synapse VNA, healthcare enterprises can bring pathology into their imaging archives without new vendors or system integrations. Streamlining your vendor portfolio and minimizing system integrations will help you to create a unified enterprise-imaging strategy without compromising the workflows and expertise specific to the pathology department. Together, Synapse VNA and Dynamyx have the potential to transform digital pathology by empowering pathologists with the resources they need to make more-informed, accurate, and efficient cancer diagnoses.

[Click here](#) to contact a Fujifilm representative for more information.