



Unprecedented artificial intelligence imaging insights

Seamlessly bring preferred AI algorithms directly into Synapse Enterprise PACS workflows

SYNAPSE[®]
AI Orchestrator

Five Challenges. One Solution.

Imaging professionals face increasing workloads, greater case complexities, and demands to reduce reading turnaround times while simultaneously maintaining their unwavering focus on achieving the best patient outcomes. Current challenges include:

1. Insufficient Resources

Healthcare providers are faced with radiologist staff shortages, rising workloads, and increasingly complex studies.

2. Increasing Distractions

Rapidly propagating artificial intelligence applications can lead to inefficient workflows when providers need to simultaneously monitor multiple applications or desktop “widgets.”

3. Diagnosis and Treatment Delays

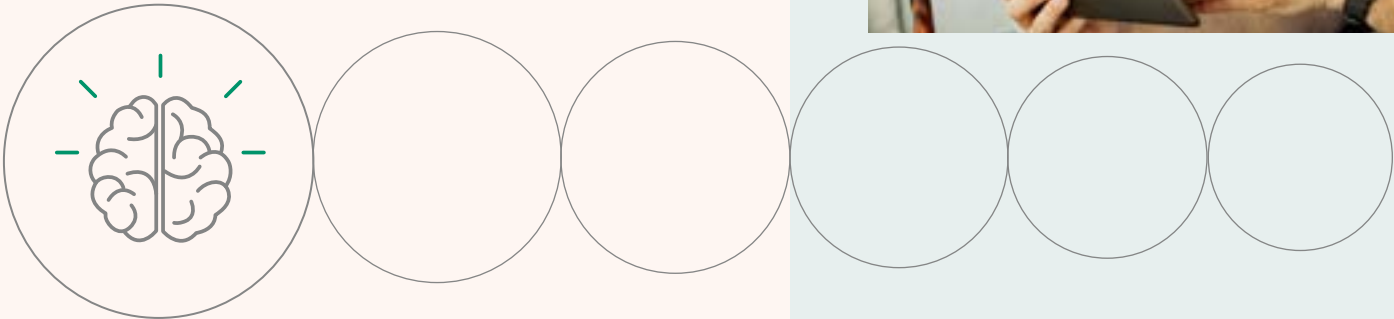
Increasing outpatient imaging and study loads can result in significantly delayed diagnoses, impacting cases that require emergency intervention.

4. Workstation Management

IT staff members face an uphill battle ensuring uptime for multiple AI applications while supporting numerous clinical diagnostic workstations.

5. Cumbersome Workflows

AI adoption forces clinical support teams to create modality routing rules for each implemented AI algorithm and protocol, which leads to inefficient data workflows.



Synapse Artificial Intelligence (AI) Orchestrator

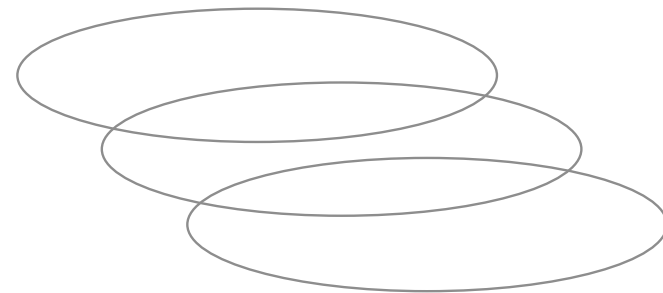
—part of Fujifilm’s comprehensive enterprise imaging portfolio—is an open imaging workflow orchestrator that uses an advanced rules engine to seamlessly bring preferred imaging algorithms directly to Synapse® Enterprise PACS workflows.



FUJIFILM Healthcare Americas Corporation

Alleviate Stresses Due to Insufficient Resources

Simplify and streamline AI adoption with Synapse AI Orchestrator, a robust solution that enables organizations to implement their preferred 3rd party, homegrown, or Fujifilm AI algorithms directly into their Synapse Enterprise PACS workflows.



Synapse® AI Orchestrator

Scalable Data Curation

Seamlessly incorporate your choice of more than 50 currently validated algorithms.

Become AI-ready

Widen the selection of “curated” AI algorithms that are prevalidated and ready for implementation.

Gain Flexibility

Consolidate AI algorithm incorporation with flexible and industry-standard integration options.

Accelerate Treatment Decisions

Use AI to prioritize studies on the worklist to help accelerate patient treatment decisions.

Avert Missed Findings

Incorporate AI into your workflow as a secondary review step.

Save Time

Reduce the amount of time spent on repetitive tasks.





Consolidate Multiple AI Imaging Feeds

Streamline diagnoses and patient care decisions by unifying disparate AI desktop viewers through Synapse AI Orchestrator’s operation with Synapse Enterprise PACS.



Optimize Experience

Improve IT and clinician efficiency by eliminating the need to run specific AI algorithm viewers.

Mitigate Distractions

Read studies with all AI algorithms incorporated into the PACS viewer.

Reduce AI Training Time

Allow users to launch AI algorithms within their familiar Synapse PACS viewer.

Assess New Innovations

Enable clinical users to evaluate new AI algorithms for potential enterprise-wide adoption.

Reduce Treatment Delays with AI-worklist Tools

Synapse AI Orchestrator supports the use of AI-enabled worklist prioritization tools that can help improve read times for patients with urgent care needs.

Provide AI-powered Notifications

Enable clinicians to prioritize studies for patients that may need rapid intervention.

Employ Secondary Reads

Help avoid missed diagnoses with secondary-read AI algorithms.

Improve Efficiency

Reduce time to treatment delays with an automated worklist triage.

Make Decisions Faster

Provide clinicians with findings previews.



Picture what's possible with AI

Synapse Enterprise PACS, the next-generation visualization platform, converges the functionalities of Synapse Radiology PACS (including mammography), Cardiology PACS, Pathology PACS, VNA, 3D Advanced Visualization, and Fujifilm's Synapse AI Orchestrator on one common viewer. **Watch video**



Implement a Scalable Solution for Enterprise-wide Adoption

Consolidate AI Integrations

Reduce the number of concurrent application deployments.

Reduce the IT Burden

Support AI applications with varying specs, including different operating systems, browsers, browser versions, plugin-ins, and more.

Gain Flexibility

Support cloud-based and on-premise solutions through one central platform.

Track Usage

Monitor AI algorithm utilization trends and results through the Orchestrator’s database.

Improve Performance

Reduce IT resource usage by routing only the data needed for processing.

Simplify Management

Easily manage AI utilization and accessibility rules through the Orchestrator.

Designed for true AI interoperability, Synapse AI Orchestrator allows healthcare IT staff to deploy and maintain a multitude of AI applications for clinical workflows across the enterprise.

Simplify AI Workflows with an Intelligent Rules Engine

Synapse AI Orchestrator supports efficient clinical workflows by aggregating data from multiple algorithms into a single cloud-based or local instance.

Improve Data Accessibility

Create one set of AI routing rules based on study and procedure type in a single web-based UI.

Improve Efficiency

Eliminate manual routing requirements for studies and need to maintain disparate rule sets.

Simplify Data Routing

Use the Orchestrator to provide simple, pre-established workflows.

Monitor Billing Accuracy

Cross-reference AI utilization with vendor charges to ensure accurate billing for studies processed.

Optimize Routing Processes

Eliminate data routing steps to unlock faster processing times and provide faster results.



Synapse Analytics

Further expand your enterprise imaging strategy with the data mining and extraction solution that enables clinical, administrative, and executive staff to see current and predictive views of their business operations. [Learn more.](#)



Synapse Cloud Services

A comprehensive AI implementation can be greatly enhanced with an underlying cloud infrastructure that adapts and scales with your enterprise. [Learn more.](#)



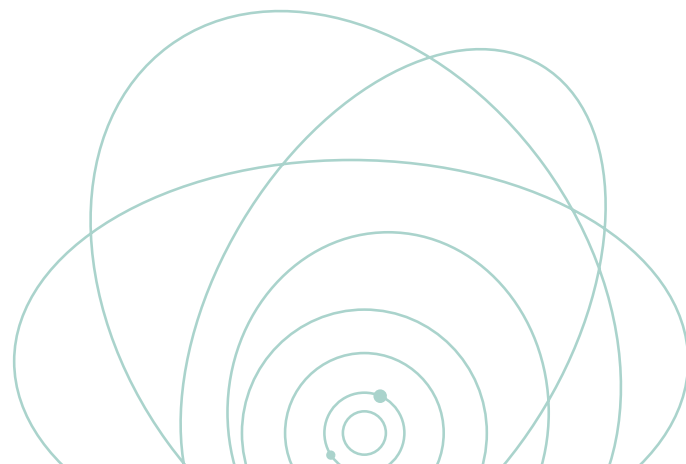
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Synapse® AI Orchestrator

Bring unprecedented artificial intelligence
insights to your organization



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



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For 90 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.