

Activate Imaging Data for Clinical Trials & AI Development

Flywheel and AWS HealthImaging have partnered to help biopharma, medical device and academic medical centers transform imaging data into an enriched, reusable Enterprise Golden Data Lake for clinical development, research, secondary analyses and AI innovation. This seamless integration establishes AWS HealthImaging as the enterprise source of truth and Flywheel as the governed activation layer to make data reusable.

From a Static Archive State

Enterprise imaging data often sits underutilized in siloed archives. It may lack consistent formatting, de-identification and accessibility, making it unusable to downstream R&D, clinical and AI teams. Every new project rebuilds the same ingestion and compliance pipelines from scratch. The result: slow trials, duplicated engineering and data lakes that turn into swamps instead of offering insights.



Siloed & Inaccessible

Imaging data is locked in disconnected archives, inaccessible to R&D, clinical and AI teams.



Pipelines Rebuilt Repeatedly

Every project re-engineers ingestion, de-ID and compliance from scratch – wasting months.



Data Lakes that Don't Deliver

Ungoverned archives can't support trials, AI model development or evidence generation at enterprise scale.

To a Golden Data Lake

AWS HealthImaging provides scalable DICOM storage for enterprise healthcare. Flywheel activates that data by standardizing, validating, enriching and de-identifying imaging data before it ever reaches the data lake. Together, we combine durable, cost-efficient data storage with a governed activation layer that transforms static imaging archives into reusable, AI-ready enterprise assets — without rebuilding a single pipeline.



Transform your data lake into a governed, analysis-ready imaging foundation



Accelerate Time-To-Insight

Analysis-ready imaging enters the data lake from day one — no manual curation bottlenecks slowing trials or R&D programs.



Build In Compliance

Leverage configurable de-ID profiles, role-based access and per-job audit logs for 21 CFR Part 11 and HIPAA compliance.



Eliminate Redundant Pipelines

Reclaim ingestion, de-ID and QC workflows across retrospective and prospective studies, without sacrificing governance.



Scale for Global Programs

Grow AWS-native infrastructure to petabytes. Flywheel orchestrates multi-site, multimodal workflows across the entire enterprise.

Built for the way your teams actually work

Native AHL storage type — setup via Flywheel UI or CLI, no S3 intermediate required

Bulk Import & Export — with UI, CLI, scheduling and API-trigger options

Configurable de-ID profiles — run as part of the pipeline before data lands in AWS HealthImaging

IAM role-based credentials — secure, AWS-native access management for every connection

Per-job audit log — initiator, timestamp, source/destination and file-level status

DICOM Part 10 enforcement — non-compliant files auto-flagged with clear skip status

[Get Started Today](#)