

Realize the Value of Enterprise Imaging

Medical imaging workflows are increasingly complex and may create demands that exceed an organization's IT system capabilities. These demands can be particularly acute when clinical workflows must unify physically and technically distinct business entities and/or clinical departments that employ multiple imaging and archiving systems.

Laurel Bridge enterprise workflow solutions synchronize delivery of current and prior imaging studies to the clinical staff that needs them, wherever they reside; and automate the processes that enable the increasingly distributed healthcare organization to:

- Integrate systems and facilities
- Improve organizational productivity and efficiency
- Enhance clinical quality and patient care
- Expand clinical services and patient referrals

Enterprise Imaging Workflow Challenges?

- Ingestion and delivery of current and prior studies among disparate organizations, facilities, or clinical IT systems
- Integration of DICOM, HL7, and non-DICOM objects into clinical workflow
- Integration with Master Patient Index (MPI) and Patient Identity Cross-Reference (PIX) systems
- Automation and improvement of the delivery and normalization of prior exams
- Unifying disparate clinical workflows, systems, and organizations

Laurel Bridge Can Help

- Eliminate manual intervention by automating study retrieval and movement
- Maximize clinician productivity by intelligently delivering relevant studies
- Minimize IT resources by implementing reliable, autonomous solutions
- Improve imaging workflows with advanced routing, filtering, and fetching

***The right imaging information
delivered to the right clinicians
at the appropriate time
across the enterprise!***



Common Enterprise Imaging Workflow Scenarios

Standardize Study Identification and Distribution

Ensure critical patient information such as patient ID, demographics, originating location, and study description is normalized to enable seamless ingestion and workflow efficiency.

Move DICOM and Non-DICOM Imaging Studies and Related Data Among Departments and IT Systems

Enable access to imaging studies from any number of sources and ensure the delivery of relevant non-DICOM patient information, such as reports, EKG's and non- DICOM images where needed.

Ingest and Deliver from Remote Locations

Efficiently offload mobile and remote location acquisition devices and ensure secure, reliable delivery of medical images to any archive or clinical workstation.

Ingest and Retrieve Medical Images Across Multiple Archive Systems (PACS, VNA)

Provide scalable, federated access, prioritized retrieval, and workflow capability across all clinical archive systems.

Enhance Dictation Reporting Workflow

Improve radiology staff productivity and clinical report quality by automating the insertion of DICOM Structured Report (SR) measurement data into your dictation system report templates.

Route DICOM Images Based on Previously Received HL7 Order Messages

Route current and prior imaging studies based upon order information, such as to support centralized telemedicine, teleradiology, or teleICU strategies.

Share Modalities Among Multiple Scheduling Entities

Simplify sharing of imaging resources among different patient scheduling systems and ensure new studies are automatically delivered to the appropriate reading locations.

Identify and Fetch Prior Images and Reports from Multiple Disparate Archives

Enhance distributed mammography workflows, and teleradiology workflows across merged and consolidated enterprises even when exams are scheduled 12-24 months in advance.

Functional Summary

Ingestion and Transformation

Receive, transform, and forward medical images across varied and distributed locations.

- Based on time, schedule, content, orders, or events
- Anonymize patient data
- Encrypt and compress
- Load balance across a pool of destinations
- Standardize or normalize patient demographics
- Integrate with MPI and PIX systems
- Integrate with Electronic Health Records, to transform and deliver thumbnail images and reports
- Integrate with 3rd party dictation systems, enterprise worklists, and viewers

Fetching and Distribution

Retrieve and deliver relevant medical images and reports across multiple disparate archives, including a centralized PACS or VNA archive.

- Support comprehensive fetching requirements including prioritization and query spanning
- Complex relevancy matching, including body part
- Multiple triggers: MWL, HL7, manual, spreadsheet
- Standardize patient demographics to match trigger
- Integrate with MPI and PIX systems
- Integrate with Electronic Health Record workflows, including thumbnail images and reports