Simplified Enterprise Imaging Management
Unifier Medical Image Workflow Cloud Adaptor and Archive

Why Unifier Medical Image Workflow Cloud Adaptor and Archive?

• Customizable HL7 and DICOM routing.
• Interoperability between disparate systems on DICOM and HL7 enabled devices to create homogenized data.
• DICOM Modality Worklist and proxy, HL7 broker and Interface Engine, DICOM picture archiving and communication system/medical image management and processing systems (PACS/MIMPS) proxy.
• Robust Image Lifecycle Management (ILM) rules engine.
• Flexible enterprise imaging workflow design framework.
• Built-in HL7 interface engine and FHIR integration capability.
• Vendor-neutral integration with any PACS/MIMPS, radiology information system (RIS), or electronic health record/electronic medical record (EHR/EMR).
• DICOMweb-enabled Representational state transfer Application programming interface (RESTful API) connects to any front-end application or viewer. Optional Clinical Web Viewer available.
• Advanced Protected Health Information (PHI) de-identification of DICOM metadata and pixels, enables anonymization for data lakes and AI algorithms.
• TLS encryption for secure transmission of DICOM, HL7, FHIR or DICOMWEB traffic for Health Insurance Portability and Accountability Act (HIPAA) compliance with no virtual private networks (VPNs) needed.
• Affordable disaster recovery and business continuity solution.
• Compliments onsite PACS/MIMPS by integrating with any vendor archive infrastructure.
• Visible Light Imaging workflow enabled (iOS devices).

Product overview

The Unifier Workflow Cloud Adaptor and Archive by Dicom Systems is the most flexible solution for healthcare organizations to quickly and securely adopt their imaging needs to the cloud.

This highly configurable DICOM HL7 advanced router and interface engine fully supports Digital Imaging and Communications in Medicine (DICOM) standard Transport Layer Security (TLS) encryption. It utilizes the latest enterprise imaging technology protocols such as DICOM, Health Level Seven International (HL7), DICOMweb, and Fast Healthcare Interoperability Resources (FHIR). It also designed as a horizontally scalable solution where multiple units create a DICOM Query/Retrieve Application Cluster.

The platform compliments on-site infrastructure disaster recovery back-up with vendor-neutral storage in standard DICOM for immediate access to data. This happens without the need for the client to upgrade existing infrastructure or software.

Product features

Custom workflows
Flexible and simple rules-based medical imaging workflow engine.

Seamless integration
Consolidate multi-vendor, multigeneration solutions and improve interoperability.

Scalable architecture
Efficiently expand your enterprise with horizontal scaling.
How it works

Unifer Medical Image Workflow Cloud Adaptor and Archive is a powerful, interoperable enterprise imaging platform. Its focus is to ensure health data is fully integrated and always accessible—resulting in better patient care and improved IT performance. Dicom Systems provides a versatile suite of enterprise imaging solutions that scale with your business. The platform enables teleradiology workflows, intelligent routing, Secure Sockets Layer (SSL)-based DICOM and HL7 integration tools, artificial intelligence (AI) on-ramp, all the way to enterprise-class vendor-neutral archiving.

Differentiators

- **Interoperable**—vendor-neutral and standards-based enables seamless integration and communication between various health and imaging IT systems.
- **Powerful**—manages a variety of enterprise imaging workflows and can be configured to route as much image data as needed.
- **Scalable**—designed to grow as organizations evolve, add resources or more reading services. Configure additional product features as needs change.
- **Efficient**—hardened and minimal. Performs all functions in Random-Access Memory (RAM), a substantial performance advantage. Most tag-morphing, DICOM, and HL7 transformations and other imaging workflow-related changes happen in memory, in flight. Utilizes short-term storage for image data. This distinctive element makes the platform highly dependent on I/O capacity. The faster disk speed available, the better Unifier Workflow Cloud Adaptor and Archive performs.
- **Secure**—core Linux based, hardened operating systems with proprietary HIPAA compliant software and default encryption for the images and reports.
- **Configurable**—Linux-based appliance that allows for secure and rapid updates. Deployment on-premise, private cloud, hybrid cloud, and leading public cloud providers.
Data Points

30B
Medical images processed annually

300+
Number of deployments across 4 continents

176M+
Studies processed annually

What our customers are saying

“One of our main selling points was how easily we could get things configured, allowing radiologists to start reading on Sirona’s platform with minimal disruption. This project would have taken me an extra 100 man-hours to execute without Dicom Systems Unifier platform, not to mention the numerous issues and errors that were avoided for future maintenance. The built-in tools to query/retrieve priors based on both DICOM and HL7 workflows makes integrations easy to develop and support in the future.”

- Vijay Yeluri, Head of Integration, Sirona Medical

Solution available in [AWS Marketplace](https://aws.amazon.com/marketplace/seller)?