

# Case Study: HL7-DICOM Integration Gateway for RIS / PACS Systems

## Client Requirements

Client is a leading provider of medical imaging applications including PACS, RIS, Data Acquisition and Viewing Workbenches. Client's applications are installed in Hospitals and Imaging Centers – from large integrated multi-facility providers to mid-size outpatient imaging centers.

In many user settings, Client's radiology workflow requires the RIS application to exchange information (e.g. ADT, ORM, ORU messages) with other information systems. CitiusTech was selected to design and develop an integration solution that was:

- Based on industry standards
- Consistent in look and feel to existing client applications
- Easy to install, operate and maintain

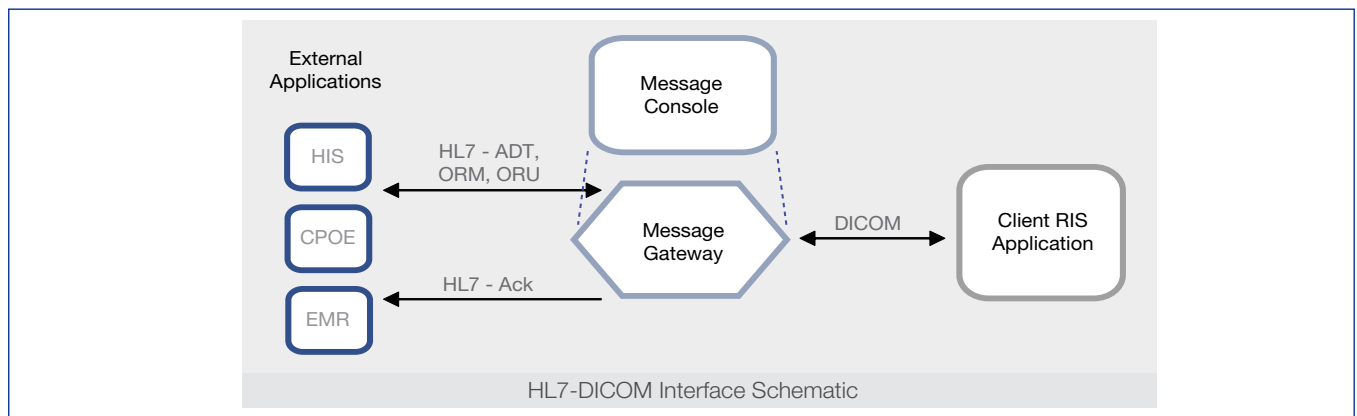
Message gateway application that enabled a bidirectional exchange of standard HL7 messages between the Client RIS Application and External applications such as Patient Registration, Order Entry and Electronic Medical Records. The Message Gateway is a server application built using J2SE technology.

## Development

CitiusTech used the rapid prototyping and application development approach to deliver the first release to the client in 4 months.

## Delivery and Support

A customer ready solution complete with the installation CD, user manuals and FAQs was delivered. CitiusTech continues to provide enhancements and support for this solution in coordinated releases with the Client's RIS Application.



## CitiusTech Solution

For this project, CitiusTech employed a dedicated team of domain specialists and developers with a strong understanding of radiology workflows and technology standards for healthcare integration – such as HL7, DICOM and IHE.

## Design

The team designed and developed an HL7-DICOM

## Value Delivered

In partnering with CitiusTech, the client was able to:

- Enhance customer satisfaction from faster installations and improved workflow at Provider sites
- Achieve rapid time to market with the right solution due to deep domain expertise of CitiusTech architects
- Benefit from cost effective delivery by leveraging CitiusTech's global delivery model

## About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management.

CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.

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