

HL7 Integration

Client Background

Customer is one of the largest radiology service providers in USA. Customer runs multiple practices across multiple locations. Customer's outsources process of reading of radiology images and preparing reports. Such transcribed reports are then reviewed by Customer's in house radiologists and approved.

Client's Challenge

- Being number one in radiology business, customer has to deal with influx of interfaces between the RIS and their referring physician EMRs. These would be uni-direction and bi-direction interfaces or orders and/or results.
- Sometimes EMR vendors send only raw data with respect to patient and order details.
- Customization in different message segments of HL7 ORM and ORU messages as per the need of Physician or Hospitals e.g., one physician sends laterality code at segment OBR4.5 and some may send laterality at segment OBR4.1.
- Generating JSON object from HL7 ORM message and sending it to RIS.

The Our Approach

We provides HL7 experts who work on Mirth platform to handle different type of messages using JavaScript.

Inbound and outbound messages received by Mirth channel are customized by our HL7 experts to meet the requirements of respective EMR or RIS systems.

HL7 team can generate ORM messages based on raw data received with respect to patient and order details and generates JSON object from HL7 ORM message and sending it to RIS system.

Successful outcomes and results

- HL7 experts with experience across multiple systems and solutions who can help you create and manage interfaces between your RIS, PACS, EMR/EHR, PMS as well as external systems that might not support HL7.
- Ability to work with your team or independently to build and support interfaces.
- HL7 experts can generate HL7 messages without using any third party interface provided they get access to EHR/EMR, PMS, LIS or RIS system.
- HL7 team can create as well as parse CCD, C-CDA documents.
- Also HL7 developers can develop detailed test plans, execute test to verify interfaces satisfy design requirements, and update scripts based on results.
- HL7 team is able to create and integrate web services with mirth interface or any third party software.
- HL7 team has working experience in different technologies like ASP.NET, MVC, ROR, JavaScripts, jQuery, Web services, Window services, JSON, XML, HTML, CSS.

Technology used

- Mirth Engine
- Javascript
- Jason