



HL7 INTERFACE DEVELOPMENT AND HIGH PERFORMANCE MESSAGING SERVICE



THE CLIENT

The customer is a pioneer in providing healthcare information systems to small/midsize hospitals and is a market leader in serving rural community and critical access hospitals in the US.



BUSINESS NEED

The customer envisaged a robust HL7 integration and messaging service to address the HIS integration solution across different departments in a hospital. Some of the challenges:

- ⦿ Support for HL7 2.x and 3
- ⦿ Streamline processes within the hospital, reduce patient waiting time and improve the efficiency
- ⦿ Support HL7 messages to share health information in the areas like
 - ◇ Patient demographics, accounting, insurance
 - ◇ Clinical observations and diagnostics
 - ◇ Patient encounters such as registration, admission, discharge & transfer
 - ◇ LIMS, Pharmacy, Billing Systems, Document Management Interface Development



BUSINESS BENEFITS

- ⦿ The solution helped in connecting people, processes, and applications within and between healthcare organizations, thus providing a "connected healthcare enterprise"
- ⦿ Greater business efficiency achieved with faster HL7 messaging and rapid integration



SOLUTION DELIVERED

The solution proposed by ALLEN Calsoft Labs is conformed to HL7 2.x and 3 with pre-configured customizable HL7 message router and version 2.x schemas.

The key solution features are:

- ⦿ HL-7 interfaces across all modules that facilitate standards conformance
- ⦿ Implemented inbound and outbound messages for the following
 - ◇ Admission, Discharge and Transfer
 - ◇ Detailed Financial Transaction
 - ◇ General Order Message
 - ◇ Observation Results
 - ◇ Pharmacy/Treatment Encoded Order Message
 - ◇ Master File Notification
- ⦿ Developed HL7 interfaces for CMS, Billing systems, Pharmacy vending machine, PAS and LIMS
- ⦿ HL7 messaging service
 - ◇ Support for FTP/TCP/HTTP/HTTPS protocols for message delivery
 - ◇ Audit log with successful & failed transmissions
 - ◇ Configuration manager to set frequency, protocols and number of trials
 - ◇ An event controller that handles the HL7 message generation (for transmit) or processing (received messages)
 - ◇ Testing service for validating interface components

ABOUT ALLEN CALSOFT LABS

ALLEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALLEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALLEN Calsoft Labs is a part of ALLEN group, a leader in technology consulting and engineering services.

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