ALTEN CALSOFTLABS
AN ALTEN GROUP COMPANY

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 ALTEN 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

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