HL7 integration: TCP/IP based Approach

Client

A healthcare group situated in the United States of America.

The Task

Our client wanted us to bridge the information gap between the client server driven based practice Management System (PMS) and the web based Electronic Medical records applications that were being currently used at the practice. The solution needed to be user friendly and secure as it would be handing sensitive patient information.

The Solution

Since it was a web based EMR application, the problem related to the syncing of data between the two applications was more complicated. Binary Spectrum proposed designed and implemented an exchange of data between the between the practice Management System (PMS) and the Electronic Medical records (EMR) applications using an HL7 Format based TCP/IP based approach to bridge the information gap.

The Result

For each updated newly created patient registration and scheduling record, Binary spectrum made a file to get created in the respective folders. The created files are then sent over TCP/IP connection, at the receiving end a service listens at a particular port and imports the data into EMR database after receiving the data at the specified port.

Features

- Using Binary Spectrum's solution the client was able to enjoy the benefits of his client server driven Practice Management Application (PMS) which he used for Patient Registration, Scheduling, and sending Claims and seamlessly integrate this with the Web based EMR application currently being used for documenting the Patients Chart.
- Security features were implemented as part of the design.
- A user friendly interface was incorporated.

Technologies &Standards

- DotNET
- MYSQL
- HI7
- TCP/IP protocols

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