



Business Scenario

Our client is a privately held, business specializing in "hospitalist" care in Western US medical centers. Hospitalists work as contractors within hospitals to provide overflow and supplementary care and patient oversight for physicians with admitting privileges at those institutions. The legacyCharge Capture System was a web based system that has Physician collaboration, charge capture, billing processing, reporting, and messaging modules. This system is one of the key differentiators for SIP as it allows collaboration and consistent care provided across multiple sites.

The new developments on the legacy system would be to enhance all of those functionalities with the latest technology including several new features to achieve the following business goals –

1. Automated import and translation of member hospital demographics data
2. Match incoming hospital demographics data with SIP inpatient records
3. Enhanced reporting capabilities
4. Revision of all Billing pages to include patient demographics data and stream line bill processing
5. Design consideration for later development of billing data export interface
6. Implement data retention and archive process



iLink Solution

The new system makes use of the BizTalk collaboration architecture for its base operational functionalities and on top of these the HL7 adapter plays the role of adding further HL7 specific message passing and data handling functionality. The development system could be classified into four stages -

1. Integration with the billing system
2. HIPAA Interfaces development
3. Web based charge capture system workflow enhancement
4. Custom and standard reporting templates

A completely new workflow has been designed and developed for the charge capture system along with an ability to capture HL7 compliant patient demographic data. An automated data drop and pickup system has been developed where hospitals dump their data at real-time and this is processed immediately for updates to the billing and patient discharge workflow via the centralized BizTalk framework.

iLink Contribution

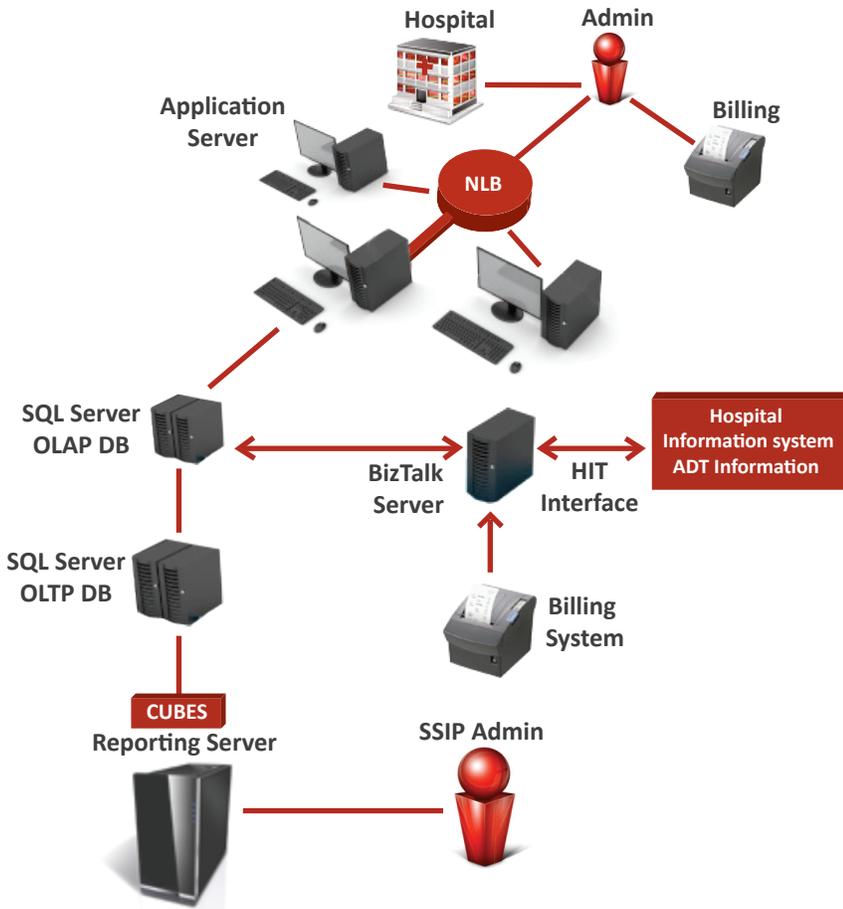
iLink has been involved with architecting and development of the system right from the scratch and through almost all of the crucial stages of development cycle. The team was a combination of engineers onsite and offshore with healthcare experts guiding the development.

Business Value

1. Clear vision of charge classification for easy decision making
2. Easy Communication/ Collaboration between Hospitalists
3. Quality metrics and Compliance, reduced data redundancy
4. Complete Analysis and Development for Hospital System Interfaces
5. Use patient demographics data to track patient satisfaction
6. Develop patient results data through follow up interviews
7. Reduce billing processing costs
8. Improve workflow for Physician charge capture



Architecture



Technology

- Microsoft Biztalk Server, Biztalk Accelerator
- Microsoft SQL Server with Microsoft Analysis Server (OLAP) & Microsoft Reporting Server
- ASP .NET