

Clinical Information System Connector



Company: Large Multinational Corporation

Location: Japan

Customer Description

The customer is in the software research department of a large Japanese multinational corporation, whose products and related software are being sold throughout the world, including Japan, US, The America's, Australia, Asia and Europe.

When the solution service begins it will automatically continue to fetch messages. It will handle one message process at a single time. When a single process is completed, the system will delete the message from the Queue.

Business Need

The customer needed a comprehensive CIS connector to act as a messaging interface module for the CIS system. It would allow for the easy inter-transfer and exchange of healthcare data from the CIS to external systems, for example (Media, physiological testing equipment, nursing support system, CS GW, and more) using the Japanese healthcare standards as a base.

Clinical Information System (CIS) is a comprehensive information management system containing Patient Management Systems (PMS), Electronic Medical Records (EMR), Immunization Control and Tracking, Prescription / RX Writers (APW), Laboratory Interfaces (TLC) and other diagnostic interfaces via HL7, MML and other standards in the healthcare sector. CIS core component needed to be based on .NET framework.

Technology Used

- C#
- .NET
- XML
- Storing Process
- log4net
- HL7
- MML
- Oracle 9i

Benefits to Customer

- Intechno used its vast industry experience to provide an intelligent class library solution, allowing for the easy adaption of the delivered interface to each CIS Connector. The delivered solution met the customer's needs and became a very functional tool for them to use.
- The delivered solution enabled the simple transferring of referral documents using MML (Medical Markup Language).

Solution Offered

The CIS Connector gets the message from CIS via a queue and sends the healthcare data to an External System. If required, it gets additional values from CIS Core Component via Facade Layer.

The CIS Connector has the following functions

- Start/Stop Application by Windows Service
- Fetch/Delete Message from Queue
- Send Data to External System
- Access Database using Facade Layer
- Put Error Message on Error Queue

A function "Create Data based on received message" is a module used to construct a message from the application values. Then if the process is successful, delete the received message from Queue and finish the process. If it fails, such as encountering an exception while handling a message, the system will then insert a received message into the error message queue and finish the process.

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