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Clinical Laboratory: Multi-Protocol HL7 Integration

Client:

Top US Laboratory Company

The Project:

Goal of project was to enable secure message/communications between Laboratory Firm and State Governments. Project involved setting up DataPower XI50 with Message Broker and an FTP client to pick up raw HL7 V2 messages, and pass message through the MQ Distribution Center (WebSphere Message Broker 6.0) for transformation of HL7 V2 document to a different version. Once the transformation was complete, the HL7 message was routed back to DataPower using an MQ message. From there the MQ message is picked up and converted into a SOAP message using custom style sheets, to send it to the destined government office. DataPower helped for protocol transformation between FTP and MQ and then MQ to HTTP (SOAP).

Solutions Details:

- Setup DataPower to accept FTP files
- Setup Multi-Protocol gateway to do protocol conversion between FTP and MQ
- Setup Multi-Protocol gateway to do protocol conversion MQ and HTTP (SOAP)
- Develop custom Style sheets for transformation
- Setup asymmetric keys for signing the message
- Setup SSL for secured connection from DataPower to destination government Web Service
- Implemented WS-Security for message level security
- Setup monitoring/logging for DataPower

Technologies:

WebSphere Application Server 6.x ,DataPower XI50, SoapUI for Client, XML Spy for XSL Development, WebSphere Message Broker, WebSphere MQ, .NET services exposed by the government, HL7 Services

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