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Clinical Laboratory: High Throughput Stateless ESB

Client:

Large US Laboratory Company

The Project:

The scope of the project involves Enterprise Faxing for a large US lab through different vendors like ATT, PGS etc. The role of DataPower in the project is as a delivery gateway. DataPower works with Message Broker and picks up the messages that needs to be faxed in the XML format and performs the actual transmission using a variety of protocols supported by different vendors like FTP, HTTP over SOAP etc and keeps track of the status of different transmissions by a feedback to the Message Broker System.

Solutions Details:

- System designed through series of discussions with project stakeholders.
- Developed the services (XML firewall, WS-Proxy, Multi-Protocol Gateway) to meet the requirements
- Wrote the style sheets to perform business logic for error handling/retries etc in DataPower
- Implemented and verified that sensitive information is secured by encryption and SSL
- Implemented routing of message packets to different systems using XLS based on the requirements
- Set up MQ objects in DataPower to enable communication between DataPower and Message Broker
- Conducted load/stress testing for the ESB and DataPower to ensure the system met the Service Level Agreements

Technologies:

WebSphere Application Server 6.x , DataPower XI50, SoapUI for Client, XML Spy for XSL Development, WebSphere Message Broker, WebSphere MQ, Firewalls, and Vendor Services for FAX exposed using FTP, SOAP/HTTP etc

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Contact: contact@isoagroup.com (707) 773-1198

www.isoagroup.com

