

» Client Introduction

IDL Solutions is an SEI CMMI Level 3-appraised provider of Strategic Information Technology Solutions to the government and private sector. IDL CMMI Level 3 appraisal means that our customers benefit from increased product and service quality.



» Business Case

- IDL encountered problems in the earlier architecture of application as their business grew. Thus, better performance was defined as the completion of a task in less time (quicker response).
- The application has to be available when required.
- Moving the work through the system with less impact on the system and other applications.
- With the new innovations in the organization, new application development on top of IBM WebSphere Message Broker was demanded.
- 24/7 support of the whole system became important to ensure timely resolution of issues when they occur.

» Solution (IBM WebSphere MQ & WMB)

- IDL used WebSphere MQ and WebSphere Message Broker deliver a comprehensive publish and subscribe facility, connecting Message Broker's broad transport and format support to WebSphere MQ's messaging
- Performance improvements include response times and memory and storage usage. The footprint of the runtime component is reduced in terms of installation-time disk space and start-up memory size.
- Message Flow and Message Set applications were designed using Java for routing, transforming, and augmenting the contents of messages.
- For messaging between application servers, and interaction with a WebSphere MQ system, the default messaging provider was used.
- As part of its services, Royal Cyber provides end to end solution to IDL which involves:
 - Developing Java Applications for implementing solutions for IDL.
 - Providing support for these applications, WebSphere MQ server and WebSphere Message Broker.
- The applications developed by Royal Cyber fully comply with industry standards of security and performance.

» Benefits & Achievements

- Content based message routing ability for WMB was applied for all 'Message Flows' to incoming WebSphere MQ (WMQ) messages and based on the flow logic message was routed from sender to receiver
- Also Message translation facility of WMB used and thus received messages from a source, and applied 'Message Sets' to the application data inside the message.
- Publication and Subscription ability of WMB used for one data provider and message posted to a WMB instance and then have multiple receivers notified that the message has arrived and is ready to be read.
- WebSphere MQ and WMB installation was done on different machines to setup a completed environment