Exchange new car sales
American Vehicles For America's Heroes™

Case Study

Royal Cyber Inc.
Individualized E-business Solution

» Company Background

- **Exchange New Car Sales** is a worldwide organization that is the only on-base, factory-authorized distributor for Chrysler, Ford and Harley-Davidson to military personnel stationed, or on TDY assignment, abroad for at least 30 days.
- **Exchange New Car Sales** has been serving the military community overseas for more than 45 years, and has been exclusively selected to perform that role since the AAFES/NEXCOM program was authorized by the U.S. Congress in the mid-1960s.
- **Exchange New Car Sales** is a division of Overseas Military Sales Group (OMSG). OMSG and its divisions operate in 30 countries in over 100 offices throughout North America, Central America, South America, Europe, the Middle East and Asia.
- Other divisions of **OMSG** include Navy Auto Source, Military Auto Source, Auto Exchange, Diplomatic Automobile Sales, International Auto Source, Financial Services Group (FSG) and Ready Drive.
- **Exchange New Car Sales** online connections to manufacturers and financial institutions allow their consultants worldwide to track the status of any vehicle anywhere in the production process with a simple keystroke. In addition, they provide website resources, including virtual vehicle showrooms, real-time vehicle stock selector, and online consultants via live chat.

» Solution (IBM Rational Developer for Power Systems & EGL)

- After examining client's environment architecture, Royal Cyber decided to create Web services using IBM® Rational® Developer for Power System™ which provides a comprehensive development environment for creating and maintaining applications on AIX, IBM i, and Linux.
- To develop RIA clients for web services, IBM® Rational® Enterprise Generation Language (EGL) was selected. EGL was a perfect fit because its development paradigm can be easily understood by skilled RPG & java developers.
- EGL enabled Royal Cyber developers with wide-ranging skill sets and backgrounds to apply Web and service-oriented architecture (SOA) technologies as they delivered an advanced solution.

American Vehicles for America's Heroes

» Initial Steps

- Initially, Proof of Concept (POC) was given to MIS head & project managers of MilitaryCras. First a web service was created on RPGLE code using IBM® Rational® Developer for Power System™ and then an RIA client program was developed using IBM® Rational® Enterprise Generation Language (EGL).
- Multiple web services were created on different RPGLE programs and Database records.
- Number of RIA client programs was developed to consume each of the web services and present result in user-friendly Web 2.0 widgets.

» Business Needs

MilitaryCars wanted to create web services over RPGLE programs and develop RIA clients to consume those, including following features.

- Calling multiple RPGLE programs within one Web service
- Calling DB2 records & RPGLE programs within one Web services
- Creating Ajax powered Rich (Web 2.0 looking) widgets.

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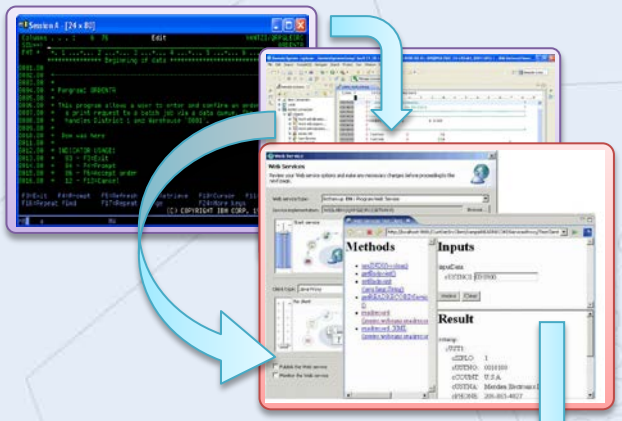
» Delivered application in three weeks

- Web services & RIA clients were developed in three weeks with required features & functionality as per MilitaryCars requirements.

» Rational® Developer for Power System creating web services

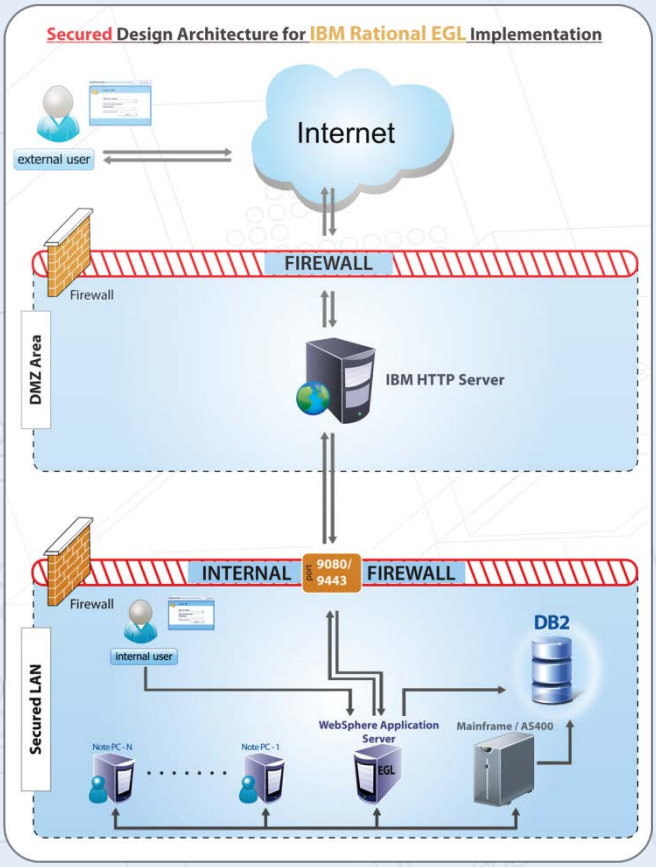


» RIA Clients for Web services

» Business Benefits

- Streamlined business efficiency in providing controlled access (via Web services) to the existing business logic; Web 2.0 styled RIA Web clients; improved employee productivity & customers' satisfaction.

» Design Architecture



Secured Design Architecture for IBM Rational EGL Implementation

» Key Technologies and Tools used

- IBM® Rational® Developer for Power System™
- IBM® Rational® Enterprise Generation Language (EGL)
- Rational® Business Developer (RBD)
- IBM® WebSphere Application Server
- JavaScript
- HTML
- CSS