CASE STUDY – MANUFACTURING & LOGISTICS

Development of an Integrated Dry Bulk Shipping Management System

OVERVIEW & BUSINESS NEEDS
The Client is based in Australia specializing in providing proven software for maritime companies. The company offers scalable services — from development to designing — to help end-users manage functional areas of the Dry Bulk Shipping Industry.

The Client’s core requirement was to develop an integrated system for maritime companies. The following specific objectives were also identified:

- Overcoming redundant industry processes
- Create a centralized update mechanism
- Fulfill requirements of predefined reports and other MIS Reports
- Addressing discrepancies in data entries
- Integration & enhancement of existing workflow processes

CHALLENGES
- Multi-time zone management and automated report delivery
- Designing and implementing the 5-tier Security Matrix for secured transactions
- Formulating arrival schedules to paramount accuracy
- Automated approval/rejection within workflow for various entities

SOLUTION
- Developed an integrated system for Dry Bulk Shipping Management
- Created the functionality for scheduling the company’s ships and tracking their real-time locations all over the globe
- Developed a flexible, reliable, scalable, and modular design, consisting of a suite of interconnected modules & services [SaaS on demand]
- Provided end-to-end functionality to enable 24x7 reliable communications between discrete operations in the global shipping industry

The integrated system consisted of modules that were highly effective and integrated with supply and distributed chain management system for dry bulk sea borne transportation

- Implemented a comprehensive architectural design for an offline and real-time environment
- The diversified portfolio of shipping services developed consisted of features like 5 Tier Security, Data Sharing capability, Cargoes, Charter Parties – COA, Fixture Notes, Nominations, Pre-Arrival Schedules, Production Data, Port Details, Estimators, Audit, and Market Information, etc.

TECHNOLOGIES USED
- Microsoft .NET Framework 1.1
- SQL Server 2000 Server
- Microsoft IIS 5.0 Web Server
- XML based
- SOA Architecture