

Solution Overview

Industry
Manufacturer

Company Profile

Client is a global technology leader and supplier to the railroad, marine, drilling, wind and mining industries. Client provides freight and passenger locomotives, railway signaling and communications systems, information technology solutions, marine engines, motorized drive systems for mining trucks and drills, high-quality replacement parts and value added services.

Benefits

- Improved decision making
- Compliance monitoring
- Easier Regulatory Maintenance
- Easier Track and Trace of Assets

Technology Used

- SQL Server Integration Services (SSIS)
- Microsoft SQL Server 2005
- SQL Server Reporting Services (SSRS)
- Microsoft Visio
- 3M Capacitive Touch screen and RFID tracking pad model 870, 13.56 MHz RFID tags
- 3M Hand Held software
- SQL Server CE
- SQL Server Analysis Services
- Performance Point Server 2007
- Share Point Server 2007

Partner



Congruent Info-Tech Pvt. Ltd

www.congruentindia.com

Client selected Congruent as their partner for developing and implementing Data Warehousing, Reporting and Performance Management Solution

Client Situation

- The client's customers are equipped with the 3M hardware and software on their handheld devices
- The maintenance personal perform routine maintenance tasks to a piece of personal protective equipment (PPE) identified by an RFID tag. When they synchronize their handheld, the data moves to the ODS of the hosted Application Servers
- Support Performance Improvement team through provision of site safety data
- Improve maintenance process by analyzing, understanding and reporting
- Aid SXO Compliance for safety equipment
- Support increasingly stringent Regulatory Reporting of Maintenance Tasks

Congruent's Solution

- Design a data warehouse that will support a hosted model
- Create a data extraction system (ETL) from the Operational Data Sources into the Data Warehouse
- Design and meet the entire reporting requirement
- Design Analysis Services Database to support Performance Point Server capabilities
- Design Key Performance Indicators and Performance Point Server Dashboards

Key Challenges

- Cater to the hosted model warehouse
- RFID data
- Hand held data and SQL CE
- Data Quality

Key Metrics

- Operational sources – 1200
- Warehouse – 5 TB
- Users – 60
- Load – Daily 2 million records