

A real-time vehicle tracking solution for SAIL

1) Problem/Objective

SAIL (Steel Authority of India) is a leading public sector organization engaged in manufacturing Steel products. It is ranked amongst the top ten public sector companies in India in terms of turnover. It produces and sells both basic and special steels for domestic construction, engineering, power, railway, automotive and defense industries and for sale in export markets. One of the major areas of concern for SAIL was route optimization and time scheduling of locomotives towing ladles carrying molten iron. The ladles begin carrying molten iron at 1400 C, but by the time ladles reach the destination the temperature is 1200 C. Due to this the upper layer used to get hardened and was wasted. SAIL wanted to reduce this loss and wanted to optimize the route by tracking the ladles on a real time basis.

2) ADCC's approach

ADCC offered a solution to track the movement of locomotive carrying molten metal. ADCC implemented its fleet locator solution based on GIS-GPS-GSM technology to track and monitor locomotives on a real-time basis due to temperature sensitivity of molten iron. The solution fulfilled the need of SAIL to reduce the time span to travel for the locomotive by optimizing the route and tracking of unwanted stoppages and tracking travel bottlenecks.

- Comprehensive fleet management system.
- Route Optimization
- Real-time functionality for
 - Tracking
 - Reporting
 - Controlling
 - Monitoring
- Emergency – Cope up effectively
- Digital Fence to ensure predefined route
- MIS Reports

3) Technologies used

The solution for SAIL was developed using VB 6.0, SQL Server 2000, and Tatuk Kernel.

4) Client Comments

"This is really what we wanted from a long time. It facilitates better utilization of locomotives by optimizing the transport process." -Mr. K.K Mallik, AGM SAIL

5) Why ADCC

a. Expertise

Excellent Resource Pool of professionals with average 4 years experience



and rich domain knowledge across various industry verticals. 100 man-years of experience working on different software projects.

b. Infrastructure

State-of the-art, Scalable Infrastructure with 6 Servers, 75 Client Nodes

c. Delivery Model

A delivery model for 365x24 services levels tailored to client needs for offshore, onsite or virtual onsite service delivery.