

Business Challenge

An industry leader in drilling equipment manufacturing operating in Canada, was facing lot of challenges in tracking their assets or equipment available in their remote rig sites in terms of usage, maintenance & repair, breakdown management, movement from one project site to another. There is no proper (accurate & regular) flow of data from the rig sites to their headquarters thereby increasing inventory & maintenance costs of their assets.

Technology Solution

The solution has been developed to increase the efficiency of asset lifecycle management using RFID tags & handheld devices which will be used to track asset details and send updates to the RIG servers over the internet.

Technology Used

.NET Framework, .Net Compact Framework, SQL Server / Oracle Database, IIS 7.0, Windows 2008 R2, Windows CE. UHF RFID Device drivers

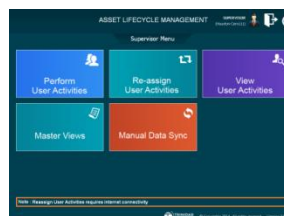
Implementation challenges

- Deployment of application in remote locations
- Pushing Data from Hand Held Device to external server

Overall Benefits

- Secure data transmission over the public network using encryption algorithms
- Data Compression to increase the data transfer success rate over the low latency network communication
- Queue implementation for the Asynchronous data transfer which enables RIG sites to consume data on network availability
- Flexible design of the server & RFID Device application to make configurations according to business need
- Portability

Sample Screenshot



Offering
ALM Solution

Domain
Manufacturing

Client
Trinidad Drilling