ALM solution using RFID devices

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 a according to business need
- Portability

Sample Screenshot

Offering
ALM Solution

Domain
Manufacturing

Client
Trinidad Drilling

Coromandel Infotech India Ltd.
Mount Towers, I & II Floors, 2/4, Mount Poonamallee Road, Manapakkam, Chennai - 600 089
Phone: +91 44 4505 2222 | Fax: +91 44 4505 2211 | www.c2il.com