



IOT AND PREVENTIVE MAINTENANCE ENHANCE PREVENTIVE MAINTENANCE THROUGH INTERNET OF THINGS, MOBILITY & SAP

Field users have access to rounds from SAP and complete inspections and measurements on mobile devices.



**GLOBAL RESOURCES
COMPANY**

Global

Industry - Mining

**IoT and Preventive
Maintenance**

**FIELD SERVICE
MANAGEMENT**

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MAINTENANCE PROJECT MANAGER

“We wanted to automatically transfer data from our existing condition monitoring reader to SAP. We also wanted to leverage our existing ruggedized mobile devices and Unvired was able to do that quickly and without any reconfiguration to our existing systems”

ABOUT GLOBAL RESOURCES COMPANY

Customer is a global resources company with interests in aluminium, coal, copper, iron ore, oil and gas etc.

BUSINESS PROBLEM

- ✓ Condition parameters such as Vibration, Temperature and RPM are recorded in the monitoring tool
- ✓ Inspectors manually read the data from the tool display and record the data
- ✓ Offline process - The recorded data collected during the rounds is then manually updated in SAP
- ✓ Manual entry led to inaccurate/missing data in SAP ERP, low visibility and huge Effort & Cost

SOLUTION

- ✓ Developed Internet of Things app
- ✓ Enable automatic reading of sensor data in the mobile application
- ✓ Create measurement documents with the vibration, temperature and other sensor data automatically
- ✓ Save all the data offline on the mobile device and then automatically sync back to SAP and create Measurement Documents
- ✓ All manual processes eliminated in the inspection rounds

MOBILE DEVICES AND TECHNOLOGY

- ✓ Category 1 Division 2 ruggedized Windows Mobile Devices
- ✓ Condition monitoring equipment from Pruftechnik
- ✓ Interface via Bluetooth to the sensors
- ✓ Interface developed in C++ and integrated with Java mobile application

PROJECTED BENEFITS

- ✓ Enhanced Preventive Maintenance
- ✓ Reduced operational cost eliminating manual errors, paper work and manual data entry
- ✓ Increased data correctness
- ✓ Increased Compliance