

Moving Forward to Industry 4.0

Intelligent Diagnosis for CBM

Quality/ Equipment Intelligent Prognostic Expert

Decision-Making on Predictive Maintenance

- Reduce excess maintenance costs
- Extend equipment life cycle

Production process optimization

- Improve the machine utilization rate

Intelligent EMS

- Get everything connected and run the plant efficiently.



Huge savings on DMS



Plug & Play



Real-time notice



Information security



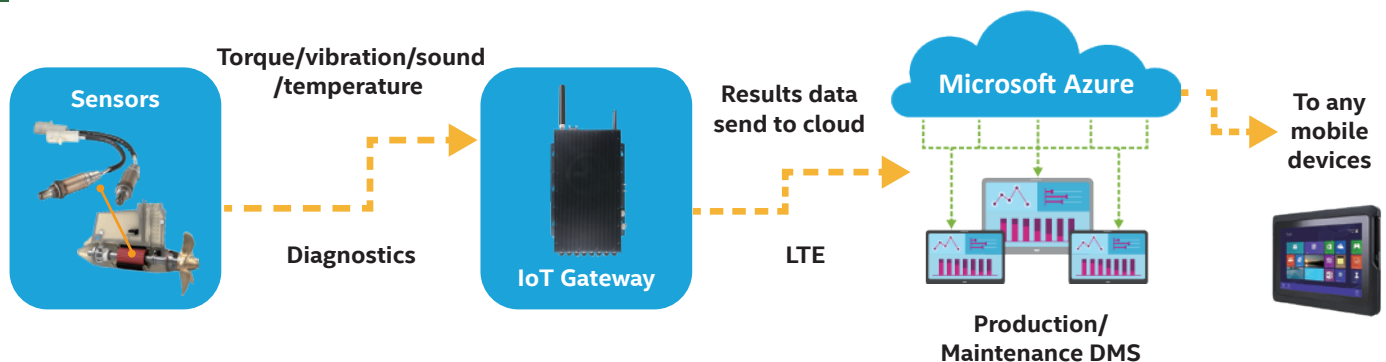
Predictive maintenance reduces the loss of unexpected down time. DMS does not require IT infrastructure and easy to understand.

To install the all-in-one equipment easily which includes measurement, analysis, data base, cloud technology, and wireless communication.

"Proactive prognostics and Real-time notification" Inform key persons through mobile phone when abnormal situation happened on equipment or product quality.

Use Microsoft Azure cloud security technique and AI analyses.

Solution Structure & Features



Real-Time: Real-time abnormal Changes detecting in Equipment

Predict: Using big data analytics for equipment preventive maintenance

Digital Transformation - All maintenance works transform to digital format

Advanced machine condition monitoring algorithms in Avalue decision support system



IoT Gateway Intelligent Prognostic System



Product Features

- Microsoft Azure Certified IoT Device
- IP65 Rating and Wide Temperature Box PC, design for the harsh environment
- Multiple communication interfaces include Wi-Fi, LTE, DAQ, Ethernet
- Programmable LEDs for Status Indication
Easy to install, plug and play



Applications

Industry	Applications
Steel Manufacturing and Mills	Steel Melting: 400tons Crane Steelmaking Plant: ID Fan Hot Mill Plant: SSP, Rough mill, Finish mill, Grinding Machine, Carry and transport structure Cold Mill Plant: Mills, Annealed, Pickled, Tempered, Flattened, Utility Plate Plant: Mills Bar and Rod Plant: Mills
Aluminum Mills	Gantry type face milling machine
Chemical Processing	Portable diagnostic device
Automotive	Production line Engine performance QC, Battery ribbon bonding QC
Fasteners (in progress)	Production line QC on Tapping machine, Milling machine, Lathe, Slotted machine
Railway	Wheel roundness, Rail gap, Torque transmission system
Metal Processing	Production line QC on bearing manufacturing
Electronics	Structure diagnostics on product moving equipment
Household Appliance	Production line QC on Sewing machine, vacuum cleaner