

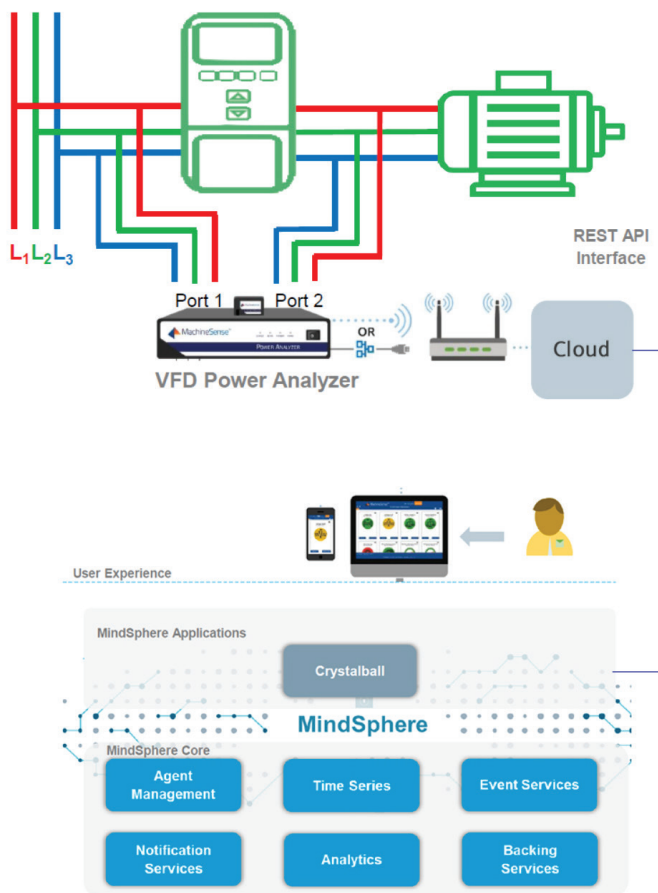
Crystalball

Real-time machine health monitoring application

Summary

Crystalball is a process manufacturing application that provides KPIs on the power quality, machine utilization, predictive maintenance, and energy usage of critical equipment and variable frequency drives (VFD). This advanced single microservice fleet manager works with MachineSense sensors and power quality analyzer products, collecting data from IIoT devices on the shop floor for ingestion into MindSphere.

Crystalball provides IIoT data visualization for numerous hierarchical sensor-to-machine relations and complex analytics mapping, reducing unplanned downtime, energy waste, manual inspections, and product quality issues. Crystalball is also available for use by other system integrator and sensor companies.



Benefits

- Increase machine utilization and reducing unplanned downtime.
- Improve energy efficiency with better visibility into power quality metrics.
- Accelerate predictive maintenance workflows and reduce manual inspections.
- Visualize real-time data analytics, issue alerts and diagnoses, and KPI trends.

Features

- Offers hierarchical sensor-to-machine relations and complex analytics mapping.
- Collects and displays real-time analytics and alarms, maintenance, repair and operations (MRO) data, and historical data.
- Provides data and recommendations on predictive maintenance, energy management, process/machine KPIs, and power quality issues.
- Can be linked to MachineSense IIoT plugins required for data integrity and reliable operations, such as sensor QC/calibration, system calibration, diagnosis portal, and more.

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MindSphere is the cloud-based, open IIoT operating system from Siemens that connects real things to the digital world, and enables powerful industry applications and digital services to drive business success. MindSphere's open Platform as a Service (PaaS) enables a rich partner ecosystem to develop and deliver new applications.

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