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INFOSYS REMOTE EQUIPMENT MONITORING SOLUTION

Business Imperative

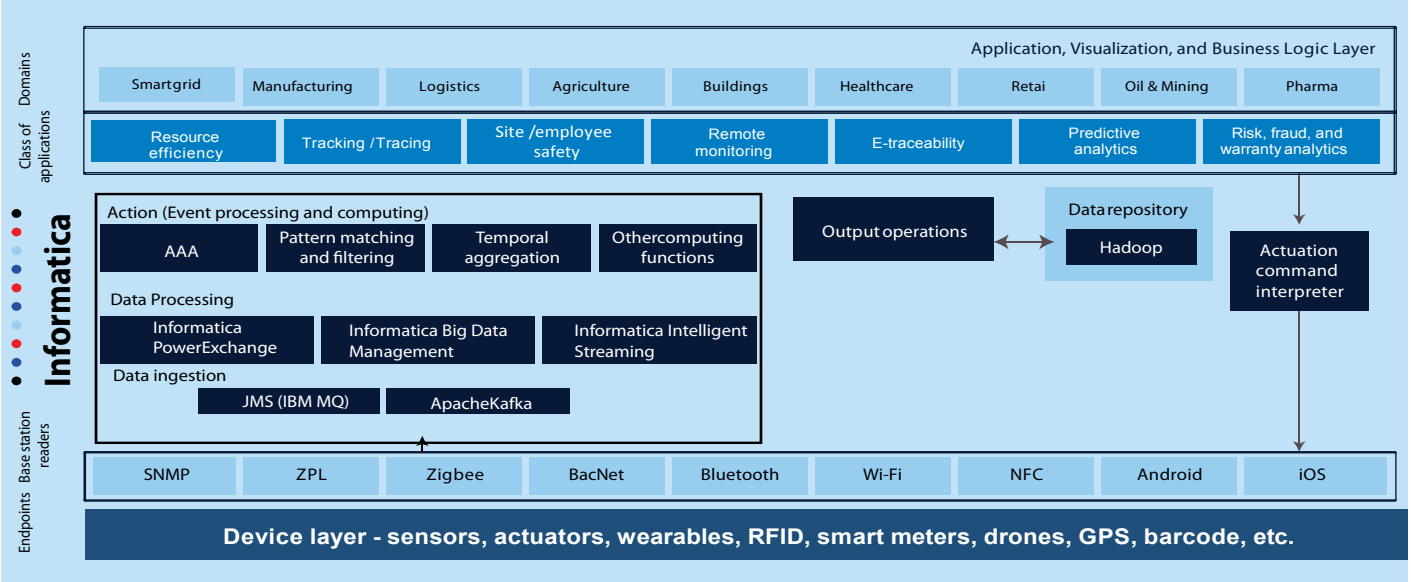
The manufacturing sector is growing rapidly and today there are different types of machines and equipment that have replaced humans in distant locations. But, these devices require periodic servicing and maintenance for prolonged life span, a really expensive proposition for manufacturers who end up incurring huge costs to ensure the equipment continues to provide quality service. For this, manufacturers have to send their skilled engineers to remote locations regularly for servicing. More often, these engineers do not have sufficient information on any glitches in the equipment's operation and are left with addressing a failed equipment. Upon an unexpected failure, they end up replacing expensive machine parts to restore service and in some cases, incur a penalty for service interruption. In addition, there is a potential for health hazards as engineers are sent to remote locations at the time of failure. Addressing these challenges require a method to perform remote machine monitoring and maintenance for increased life span, providing quality service, and lowering service costs.

Our solution

Infosys have designed a real-time process for remote-monitoring the vitals – temperature, pressure, RPM, Oil Levels etc. – of the equipment and take corrective measures upon identifying any technical glitch in the system. This helps in preventing unexpected failures and increases the operational longevity of the equipment. By deploying adequate sensors on these equipment combined with an enterprise capability to ingest this machine data in real-time, we ensure high service levels and huge cost savings for manufacturers.

Solution Architecture

This solution offering from our IOT services involves deploying industry-grade sensors on the equipment to capture the machine vitals in real-time and software to ingest the streaming sensor data with a state-of-the-art command center reporting platform. Proactive incident generation on any alerts beyond the set thresholds and historical report generation are also capabilities that help in monitoring the equipment efficiently. The intuitive command center dashboards provide live data visualizations and communicate the significant machine vitals for preventive monitoring. Informatica Intelligent Streaming solution can ingest the streaming sensor data into a big data platform for real-time monitoring of the machine vitals. This is a part of our IOT offering for the manufacturing sector through optimize, transform, and digitize for data monetization benefits.



The lack of sufficient information about technical glitches in a machine could lead to unexpected failure. Huge costs to replace machine parts and transport skilled engineers to the remote location for quick maintenance is a well-known problem in manufacturing industry. The Infosys IoT solution for remote equipment monitoring helps to address these issues and achieve significant data monetization benefits.

The solution includes deployment of industry-grade sensors combined with a real-time process to ingest the streaming data through Informatica's Intelligent Streaming.

Software supported by an intuitive user interface helps manufacturers to track any potential glitches in the machine vitals early enough before a failure. Manufacturers can now send their engineers for servicing these machines just when it is actually required rather than for a periodic servicing and thereby reducing the maintenance overhead.

Business benefits	*Technical benefits*
Intelligent insights: Platform for wide intelligent insights, predictive asset maintenance, support ticket analysis, chronic equipment analysis and intelligent command center.	Boundaryless Data Platform: Completely scalable big data solution capable with intelligent data grid, networked business products and boundaryless access to all the data.
Operational efficiency: Improved service with proactive incident generation, real-time monitoring and optimal use of equipment.	Extensible across verticals: Reference architecture is modular and applicable across industries including utilities, automobiles, retail, healthcare, etc.
Improve customer intimacy: Better service to customer in terms to adherence of SLAs and faster time-to-resolution.	Ease of integration with enterprise application: supports integration with enterprise platforms, applications and consumption from multiple devices.
Monetization: Reduced cost with streamlined operations and enables new revenue opportunities via new services and new service models.	Holistic IoT Analytics platform: Evolving library for IoT analytics, including multiple protocols support, complex event processing, analytical models and applications.

For more information, contact askus@infosys.com

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