

Asset Optimization

Managing the multitude of 'things' across the Internet of Everything



Connections between enterprises, humans, devices and networks continue to propagate. According to Gartner, there will be nearly 26 billion devices connected to the Internet by 2020, joining the billions of users already there -- all inter-communicating and generating data. The Internet of Everything (IoE) is already impacting companies -- challenging them to collect, integrate, examine, and analyze data from multiple devices to:

- Improve real-time decision making;
- Avoid equipment failures and increase production uptime;
- Accurately predict equipment maintenance needs;
- Extend the life of existing assets;
- Reduce the cost of asset repairs;
- Combine relevant data from a multitude of sources;
- Maximize team productivity.

Overview

Decisyon 360 Solution

Capabilities

Business Impacts

Corporate Headquarters

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Decisyon 360 Solution

IoE Asset Optimization solutions, built on the Decisyon 360 platform, improve asset utilization, reduce operating expenses and increase revenue. The solutions accomplish this by analyzing asset data in real time, recommending options and implementing relevant actions. Designed to integrate information from multiple systems and sources, Decisyon's Asset Optimization solutions provide a single point of access to critical data being generated by key assets such as manufacturing equipment, electricity and wind turbines, oil and gas exploration equipment, healthcare devices and others. Feeding historic trends and real-time data into predictive models, operations teams can instantly identify maintenance and upgrade requirements before failures occur.

The Decisyon solution supports alerting as well as cross-functional collaboration and decision making across departments and functions. The solution also enables users to execute functions and assign tasks without having to launch third party applications. This ability to collaborate and communicate in real time ensures that everyone is operating from a consistent view of the latest asset performance data, and they can work together to identify key issues and strategize on replacement, upgrade or maintenance requirements.

Capabilities

Key capabilities of the IoE Asset Optimization solution include:

- Easy integration of Internet of Things data and analytics from sensors, historian databases and other sources;
- Unification of structured and unstructured information;
- Self-service Asset Performance Dashboard, KPIs and alarms;
- Graphical analysis of asset performance and resource consumption;
- Predictive modeling of asset maintenance requirements to prevent failure;
- Collaboration across functions for faster decision making;
- Tasks and workflow management;
- Execution of decisions into other systems and workflows;
- Full mobile support.

Business Impacts

Customers implementing Decisyon's IoE Asset Management Optimization solutions recognize significant cost savings, based on several factors:

- Utilize predictive analytics to minimize downtime (lost revenue and compliance);
- Power a collaborative Internet of Everything platform to create a single source of truth, create alignment and improve data quality going forward;
- Improve visibility of maintenance schedules, which leads to better decisions and efficiency (cost) improvements;
- Create workflows to ensure effective execution (open work order, track through closure in the Maximo system, link fault code to specific work order);
- Improve medium and long term planning and decision making.

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