

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 and reduce cost of repairs;
- Combine relevant data from a multitude of sources;
- Maximize team productivity.

Decisyon 360 IoE Solutions on SAP HANA Cloud Platform

IoE Asset Optimization solutions, built on Decisyon 360, 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. By leveraging the SAP HANA Cloud Platform, SAP customers can integrate with existing ERP systems and build their IoE solutions on a single platform.

Corporate Headquarters

795 Folsom Street, 1st Floor, San Francisco, CA 94107
1 844-329-3972

European Office

Viale P.L. Nervi Directional Center Latina Fiori Torre 6 Glicini – Latina, Italy 04100
39 0773 694652

The Decisyon solution supports alerting as well as cross-functional collaboration and decision making across departments and functions. 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 the proper maintenance requirements.

Capabilities

Key capabilities of the IoE Asset Optimization solution include:

- Easy integration of Internet of Things (IoT) data from sensors and other sources;
- Unification of structured and unstructured information;
- Access real-time data from existing SAP infrastructure;
- Simple deployment onto SAP HANA Cloud Platform for IoE applications;
- 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.

Customer Implementations

Decisyon is partnering with large corporations in various industries around the globe in analyzing their asset optimization requirements. One example is a large US energy supplier that wants to bring together in one unified solution the data from their SAP supply chain systems, critical business systems, and IoT sensor data from their wind farms, and then enable teams to improve operational performance, streamline decision making and accelerate positive financial impact, all by transforming the data to action. For this energy supplier, Decisyon 360 is the solution to make this all happen.

Business Impact

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 application 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, etc)
- Improve medium and long term planning and decision-making.



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