



Industry Services

Maximum plant performance using smart data

Plant Data Services from Siemens optimize overall plant efficiency and the energy efficiency of your machinery and plant

Approaches such as Lean Manufacturing and Total Quality Management have changed the face of manufacturing since the 1980s. Today, these procedures are widely established and have significantly increased the productivity and efficiency of industrial facilities. But all of these approaches are based on a comparatively simple set of rules, and are greatly influenced by empirical experience and the actual cultural setting in each case.

The next evolutionary stage will therefore involve the development of fact-based principles for decision-making. In the future, the evaluation of production data will provide a reliable basis for decision-making at all times. The targeted recording and utilization of a wide range of production data opens up entirely new opportunities for day-to-day operations.

1. Record

All relevant data generated in a production facility is continuously recorded in real time.

2. Save

All data, including transitory data such as motor current, is saved long-term using cloud-based systems.

3. Analyze and simulate

All data is compiled and compared using a virtual plant model.

4. Act

Reports created using the information that is generated enable targeted improvements to be made, and Siemens unique industrial expertise will ensure they are implemented efficiently.

The strategic use of production data in four steps.

Answers for industry.

»Siemens Plant Data Services increase the effectivity and efficiency of machines and plants through intelligent analytics. This is a significant contribution to Industrie 4.0.«

Dr. Peter Weckesser,
Value Services Business Unit CEO



Imagine, for example, that a spare part that will soon be required is automatically ordered and supplied while your machine is still running problem-free. The part can then be replaced during the next scheduled maintenance session, before expensive machine failures and unplanned downtimes occur.

And imagine that your plant automatically adjusts production output to current resource prices, ensuring that you automatically achieve the maximum cost benefits from the materials you use.

Still a long way off? Not at all. Targeted aggregation, analysis, and simulation of data generated during production processes are already enabling new services that are dramatically changing the face of production.

Get a running start on the future of industry – with Siemens Plant Data Services

As a leader in the field of digitization and simulation of production processes, Siemens is pioneering the way toward improved production and making the vision of »Industrie 4.0« a reality.

Siemens leading role in industrial data technology and its comprehensive industry knowledge make it the ideal partner when it comes to using your machine data to achieve improved availability, efficiency, and performance. Today, Plant Data Services can already provide you with services that will ensure transparency in your industrial processes. Plant Data Services let you make sound, fact-based decisions at all times.

Production and process data is recorded, filtered, and structured to translate it into real added value, with intelligent analytics of this data playing a key role. As a global leader in industrial automation and drive technology, Siemens can draw on a unique body of practical experience and the comprehensive industry skills of its global network of experts.

Key services that pay off for you

»Energy Analytics« is one of the services currently available as part of Plant Data Services. Targeted data recording and informative analyses make tangible energy savings possible.

A second key area is »Asset Analytics Services,« or status monitoring for running systems. This is used mainly in the area of machine and plant availability: By recording and analyzing data it is possible to react at an early stage to material wear and tear and other disruptive factors as part of scheduled maintenance sessions. This is an effective way of avoiding costly, unplanned downtimes and serious damage.

A third area involves comprehensive security solutions as part of the Siemens Industrial Security Services. These provide reliable protection for all IT and communications technology used in industrial plant against cyber attacks from outside and faults occurring in-house.

In the future, companies that can turn their production data into a lasting competitive edge will come out ahead. And this is exactly what Plant Data Services from Siemens will help you do.

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