The Software Foundation for a Future-Proof Production Management Solution

Service Platform

PSImetals

The Journey
PSI is proud to announce the launch of our new PSImetals Service Platform (PSImetals SP) – our new software foundation that incorporates all the requirements of a Future-Proof Production Management solution.

PSImetals SP is the powerful new base for our currently available PSImetals components as well as all new services to be developed for metals producers in the upcoming years.

The leading-edge technology will further unleash PSImetals Application Excellence.

On the road to the future. Together.
Leading Methods
+ Seamless integration of the latest Artificial Intelligence (AI) and Machine Learning Services

Leading Processes
+ Flexible orchestration of Standard Services fulfilling individual business process requirements

Leading Model
+ New Services support all industry-proven Data Base Management Systems (DBMS)

Leading Communication
+ Open communication concept for PSImetals Services as well as Services developed and provided by partners, customers, or even competitors

Leading Architecture
+ Improved solution scalability and non-disruptive solution extensions or service updates due to Service Oriented Architecture (SOA)
Future-Proof I

Adaptive Best Practices for Metals

PSI delivers „Best Practices for Metals“ – a complete tool box of best practice services and process definitions out-of-the-box, ready for adaptation to local customer site requirements.

The services of PSImetals make up the process definitions.

Agile Implementation & Non-Disruptive Upgrades

The PSImetals SP enables a modular architecture, in which services are loosely coupled via the PSIbus.

This enables features such as a rolling upgrade of a service, as well as installing a new version of a service for a specific area of the plant only.

Data Analysis & Predictive Services

PSImetals SP allows embedding services based on AI/ML frameworks with the concept of “Algorithms as a Service” (AaaS).

With clearly defined APIs for data supply, training, and online operation, PSImetals SP AaaS gives access to the best AI/ML framework for any use case.
Data Analytics is the Future

All automated production lines generate and accumulate huge amounts of data. But after using it for real-time decisions, it is seldom archived and even less often used again.

*Data Analytics is one of the keys to unlock the hidden value of all this data and helps to learn for the future.*

Terms like Big Data, Artificial Intelligence, Machine Learning, and Deep Learning are all describing tools that are available today to improve production management significantly. They allow hidden patterns already present in mass data to be identified and utilized or become able to provide answers and solutions on given tasks.

**Data is like buried treasure.**

PSImetals SP enables metals producers to benefit from AI / ML concepts and the expert knowledge of PSI Metals helps to employ them in an industry context.

PSI, with its dedicated team of data scientists and AI / ML developers, supplies a complete framework on how to handle AI / ML applications along the complete data life cycle; from the first touch with your data to providing online prediction results in our applications.
PSImetals SP supports various requirements with a flexible infrastructure that can run services in any environment as needed: close to a line on the premises, in a local data centre, or cloud-hosted. Following the concept of edge computing, services can be shifted between environments as well.

### Quality & Reliability

By having the complete set of quality data of a plant in the Factory Model, Services like automated root-cause-analysis can be easily implemented to find the vulnerable areas in production when something went wrong.

### Multi-site Solutions and IT Operations

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Full Compatibility

One of our core values is our responsibility toward our customer base. That is why investment in security is a core driver of all our innovation and release processes.

*With that in mind, we are making sure that all currently implemented PSImetals solutions are fully compatible with the new PSImetals SP.*

In addition, existing customers can benefit now from new PSImetals services based on the new SP.

**Compatibility by Design.**

Just imagine the trick where a magician is removing a tablecloth by pulling it away without breaking the dishes. In our case, we are reversing the trick: we are putting the new PSImetals SP under the existing solution without breaking anything. New services can work together with established components immediately.

PSImetals SP is designed to be highly integrative for any services used in your production. When deploying PSImetals solution components, PSImetals SP can be used to integrate any legacy system, such as home-grown MES solutions or specialized applications.