SMS DataFactory

Break data silos, turn their data into information and make it universally accessible

In order to create a basis for all digitalization applications and to finally obtain added value from data, the plant data must be available in a structured, well-organized form. For this purpose, we offer the SMS DataFactory which is used to convert a raw data such as relational data, process data, time series or files into information.

CHALLENGES ADDRESSED:

- Having all relevant product data with granularity needed.

- Making data available to customer: standardized and on demand.

- Having all processing data of each production route available.

- Enables to analyze the influence of each processing parameter on the final product quality.

- Horizontal bi-directional "value chain" of (hot) data for gaining outcomes in asset utilization, efficiency, stability, product quality, safety or delivery performance.

- Taking actions based on recommendations supported by ML/AI.

PRODUCT BENEFITS:

- Seemless data from upstream and downstream lines.

- Standardized connectors for typical OT systems of steel mills.

- Unified API and standardized naming scheme. As steel plants grow over time multipe new systems are added by multiple manufacturers.

- DataCatalogue tailor-made for the metals industry, to give meaning to data and find relevant information easily.

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SMS DATAFACTORY

As the basis and tool for the implementation of the learning steel plant, it collects data from the existing plant automation system and makes them available to other applications.
It consists of various components that together enable for comprehensive preparation and analysis of all plant data.
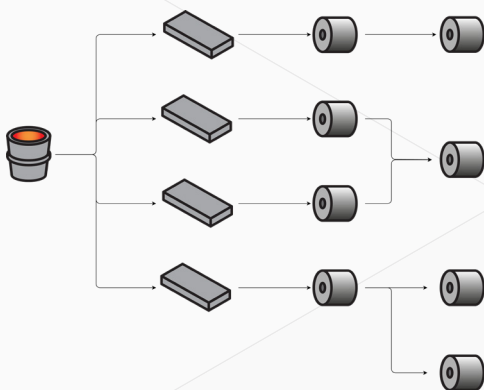
DATA CATALOGUE

Provides metadata on the data and signals stored in the SMS DataFactory.
The metadata provide assistance in the interpretation of data, give meaning to the data, describe their characteristics and define rules for the use of the data in external applications.

SCALABILITY

SMS DataFactory is a scalable product and can be used for a specific plant or machine as well as for a complete plant complex or for an entire company. This way, a specific plant section can be used for starting small and the application can later be extended to further plant components.

FULL MATERIAL GENEALOGY

The SMS DataFactory provides Full Material Genealogy which allows consumers of the data to combine and map data of length based product to any other up- and downstream length based product, e.g. map StopperRodPosition and MoldLevel positions of the continuous casting machine with surface inspection system data from the continuous galvanizing line to find non-metallic inclusions.

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