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　　　　　　SIMATIC S7-1200 　PLC SIMATIC BASIC
HMI 　G120 G130 G150 S120 　　SINAMICS 　　　　PCS7 V7.1 　STEP7
Basic

Modular production - maximum flexibility combined with maximum standardization

In today's world, process/production plants must be able to respond instantly to changes in the environment, such as labor shortage, disruptions in world trade, fluctuations in demand, etc. The solution to these challenges is modular automation.

Compared to traditional automation, modular automation enables flexible manufacturing by allowing a production line to be divided into mobile modules and reconfigured quickly. This modular design makes it easier to meet different requirements.

Module Type Package (MTP) standard as modularization enabler

When operating a modularly structured plant, the integration of process units from different manufacturers often involves a great deal of effort and problems, especially due to the use of different communication protocols and interfaces.

Standardization is the key to open and flexible automation and plant concepts. This is where MTP comes into play. Module Type Package (MTP) is a formal description of the interfaces and functions of the automation technology of a modular process unit. MTP is standardized in the VDI/VDE/NAMUR 2658 guideline and enables manufacturer-independent integration of process units into a higher process control level. In the standard, a process unit is referred to as a PEA (Process Equipment Assembly) and the process control layer is referred to as a POL (Process Orchestration Layer).

The functional description is generated from the module automation data. This allows any higher-level automation system that "understands" MTP to precisely control a specific module, regardless of whether this involves, for example, a tank or a mixer.

This solution approach makes it possible to modularize today's automation systems and thus increase the flexibility of production plants.

OEM / Module layer

The module or plant constructor supplies the plant operator with a pre-automated, independently executable and tested module, which ensures faster commissioning and fault-free production at the customer site.

System integrator / Process Orchestration Layer

MTP files with integrated process pictures are imported into the higher process control layer, where the content of the machine/plant is created. This permits uniform operation of the standard and modular automated process unit.

We offer a range of products that support end-to-end use cases and enable you to seamlessly integrate MTP into your operation. Whether a native MTP implementation or a legacy upgrade is concerned, Siemens has a solution!

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