

MPDV book presentation

Prof. Dr.-Ing. Juergen Kletti

MES - Manufacturing Execution System



The production plants of today develop into modern service centers. Economic efficiency of modern added value is not a property of products alone but of the process. Decisive potential in business now is a question of process capability, rather than production capability. Process capability in business requires real-time systems for optimization. Business-IT needs to be developed from telecommunications and ERP to real time services, which are not offered by the prevailing ERP systems.

Today, only modern Manufacturing Execution Systems (MES) offer real-time applications. They generate current as well as historic mappings of production facilities and thus they can be used as basis for optimizations. It is important to map the supply chain in real time. Increasing complexity in production requires an integrated view of the production and service facilities: detailed scheduling, status collection, quality, performance analysis, tracing of material and so on have to be recorded and displayed in an integrated way.

MESA (Manufacturing Enterprise Solutions Association) standardized applications. Further standardizations on this subject are already being developed, like ISA S95. Expectations regarding MES are high, related to TQM, SIX Sigma, production scheduling or optimized material movements.

This book describes the requirements for optimized Manufacturing Execution Systems.

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The editor



Prof. Dr.-Ing. Juergen Kletti, born in 1948, studied Electrical Engineering at the University of Karlsruhe, specializing in Engineering IT. After graduation, he founded the company MPDV Mikrolab GmbH where he now acts as CEO and President. Since 1990 MPDV has mainly been dealing with software products and services for the manufacturing industry. MPDV's main product is the software system HYDRA, which offers, besides the MES functions, numerous applications to increase efficiency.MES.

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