

## E-MES PRODUCTION CONTROL SYSTEM

LATEST-GENERATION MODULAR PRODUCTION CONTROL SYSTEM OFFERS MORE THAN JUST VISUALIZATION: IT'S A DECISION AID.

### Scalable from single modules to end-to-end solution

E-MES is a flexible, scalable production control system for monitoring and high-level control of subsystems in automated manufacturing. At both operations and process control levels, data is captured, analyzed and visualized – via a browser-based graphical user interface. The more subsystems incorporated, the greater the detail that can be displayed – delivering maximum visibility into production processes.

### Web technology

The new-generation E-MES user interface runs from a browser and exploits HTML5. The technology is compatible with all leading operating systems and supports the dynamic, graphical visualization of data analysis results. Reports and findings are accessible to users anywhere, at any time – no clients need be installed. This enables the production manager to monitor plant and equipment from a tablet device or smartphone as well as from a stationary PC.

### Decision aids at every level

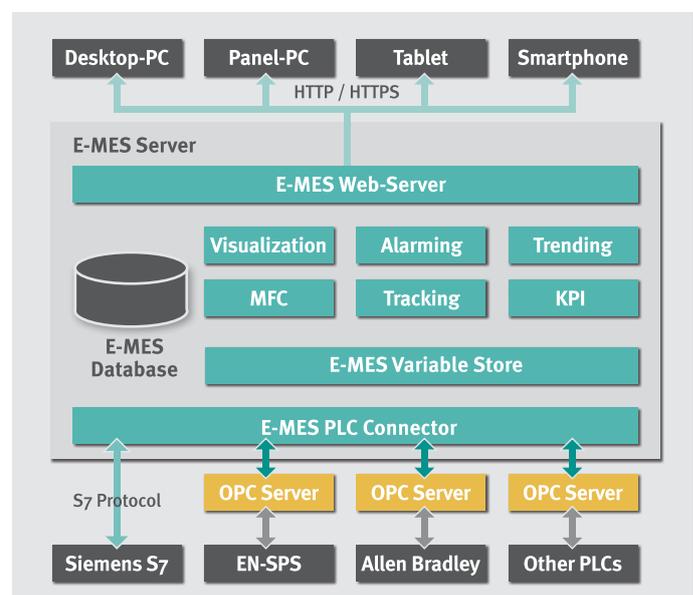
E-MES provides a wide range of information: availability of materials at given times in the manufacturing process, when a particular workpiece underwent a specific process step, what production conditions were present at a defined time, how closely output numbers match targets, and much more besides.

The system compiles custom-configured production statistics, facilitating traceability within production processes. It documents production quality in light of consistent performance indicators, and identifies improvement potential within a process.

### Configuration

E-MES is designed around a platform-independent, modular structure: further functional modules can be added later in accordance with customer requirements. Customers can choose between three packages: Basic Edition, Advanced Edition and Premium Edition. The latter two include options for mobile clients, material flow control and user-defined key performance indicators.

The E-MES portfolio offers made-to-measure solutions for every customer, from user-friendly operation and monitoring to high-level control functionality. The production control system is configured in accordance with the specific requirements of the customer's production facilities.



E-MES Software architecture.

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## Advantages at a glance

- Browser-based user interface with support for mobile clients
- Just-in-time availability of relevant data reduces downtime
- Decision aids based on user-defined key performance indicators facilitate improvement of product and process quality
- Scalable production control system is based on a flexible modular design
- Programmable offline and operating modes reduce energy costs



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