Production plant at Fresenius Medical Care modernised with IT and automation solutions

Bad Homburg Ober-Erlenbach/Germany. The Siemens Industry Automation division is modernising the business IT and process control technology of the production plant for dialysis concentrates at Fresenius Medical Care GmbH in Bad Homburg Ober-Erlenbach.

SIMATIC IT, the Manufacturing Execution Systems (MES) software, acts as a link between SAP and the PCS7 process control system, optimising plant capacity utilisation and increasing flexibility.

SIMATIC IT supports integrated data flow for all necessary information into and out of production. System support is provided at every stage of the production process and creates a tight integration of the different system levels.

This considerably reduces the amount of effort and the error rate associated with the previous, paper-based production process. Electronic data capture makes the manufacturing path traceable and transparent.

Detailed planning and automatic activation of orders and batches are standard, along with total product genealogy and production analysis.

As well as supplying the software products and associated hardware, including the relevant field devices, Siemens also provided planning, engineering and installation services.

The online connection to the ERP system and automation level enables fast and secure data exchange. Thanks to the resulting flexibility, it is possible for production to adapt and react easily in the area of order management.

Plant-specific, configurable order scheduling and activation makes it possible to achieve a high level of capacity utilisation of physical resources and to minimise idle time.

It can also help make considerable savings by moving some automated subsidiary plant maintenance processes to idle periods.

The operator user interface is tailored to the plant, and offers secure, near real-time data capture. Sophisticated input checks prevent input errors and inform the user directly.

Comprehensive standard analytical functions provide options for detailed data analysis and analysis of the finished products for further process optimisation.

SIMATIC IT