

# zenon Werum MSI Interface

## Direct communication between MES and production

The zenon MSI interface makes it possible to design new Werum MSI-ready machines. For companies equipped with the PAS-X MES system, Werum MSI is a solution that is not only easy to use, but also fulfills data integration requirements according to GAMP5 software category 4.



Using a centralized process historian is a classic approach to integrating data from machines and production lines. Although this method works, it does not make it possible to record all the information that is required – for example, who confirmed an alarm at machine level and at what time. What's more, in practice it requires duplicate configuration and validation of information such as alarms. In contrast, modern software platforms and SCADA systems that operate at the OT level are able to create and directly save electronic recordings while complying with data integrity requirements. Thanks to the Werum MSI Interface, machines can be connected directly to the MES.

### NATIVE INTERFACE

Körber Software, manufacturer of the Werum PAS-X MES – a highly popular choice in the life-sciences sector – has configured a communication interface called MSI (Message-based Shopfloor Integration) as a means of overcoming the limits of current OT and IT integrations. PAS-X can use MSI for two-way communication with production systems, improving reliability and data integrity as a result. For this to work, production machines must support the same MSI interface – so an interface that enables direct, two-way communication with

the PAS-X MES has been developed together with Körber. This interface is a zenon module that can be configured according to GAMP5 software category 4. It makes it possible to define MSI messages and map the message content to zenon variables, preventing downtime and boosting equipment productivity at the same time.

### CONNECTING EXISTING EQUIPMENT VIA MODULAR MIDDLEWARE

Existing machines that do not feature a direct interface to Werum PAS-X or integrated data retention require middleware to continuously transfer data. The zenon Software Platform offers a middleware solution that is both modular and scalable. In this application, zenon offers integration with existing machines through extensive connectivity with PLCs and field devices, contextualization and historicization of compiled data, and integration with Werum PAS-X via the MSI interface.

### DATA INTEGRITY COMPLIANCE MADE EASY

Thanks to the integration between Werum PAS-X and zenon, many more features are available, such as further interfaces to historian or ERP systems. Historical data from GMP-related variables, including alarms and audit trails, are archived in a central data storage area and can be retrieved at any time by other departments – such as those responsible for quality assurance – in order to carry out, for example, lot checking or statistical process control. Furthermore, zenon can be used to create dashboards or reports from the collected data which can be tailored to the requirements of different business functions.

### FAST FACTS

- ▶ Native interface to Werum PAS-X
- ▶ Seamless IT/OT integration
- ▶ Networking and extension of heterogeneous hardware and software landscapes
- ▶ Compliance with GAMP5 software category 4