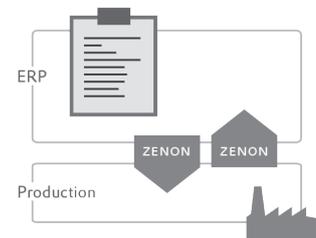# Vertical integration from the sensor to the ERP system

The direct interface between production and ERP

zenon allows simple, secure and quick connection of the process level to your Microsoft Dynamics ® ERP system. Information from production can be quickly processed by management, and the requirements of the ERP system can be implemented directly at process level.

MICROSOFT DYNAMICS NAV INTERFACE

The zenon data connector uses a two-way interface to integrate production data into Microsoft Dynamics NAV. This means that it can send messages about any given processes to the ERP level and also receives control instructions from there. Companies can therefore link their process level directly to ERP level by means of a closed information loop – and thus gain a complete and reliable overview of their entire company, from order processing through recipes and production to delivery.

INTEGRATION IN REAL TIME

The two-way connection between process level and Microsoft Dynamics NAV provides several advantages. Due to the direct exchange of data, two previously separate levels merge into one consistent system that has everything under control, from the order to delivery. Production data and events are available in real time and allow quick intervention. This enables optimum use of staff and material, because genuine production data is available online, instead of approximate offline production plans.

IMPLEMENTATION AS AN INDEPENDENT TOOL

The data connector can be used as an independent tool, regardless of automation software that is already being used. Access to any desired data from process level directly in the ERP system is thus possible.

IMPLEMENTATION WITH ZENON AS HMI/SCADA

zenon is used as an HMI/SCADA system for the visualization and control of industrial processes. In conjunction with zenon, the data connector allows direct communication between human-machine interfaces (HMI), control rooms (SCADA) and ERP software. People in production can thus also communicate with the ERP system directly

EXEMPLARY APPLICATIONS & BENEFITS

For a number of applications, the data connector allows a quality of data that was not previously possible and reduces manual inputs and thus the attendant work and possibilities for errors. Storage management automatically books what is used by production. Customers can look forward to optimized inventories and increased overall efficiency of the company. Examples of how it can be used:

▸ Order processing
▸ Operating hours meter/maintenance
▸ Storage: Checking outgoing and incoming goods

To be well and comprehensively informed, production planning is an important factor that contributes to success. Information from the HMI can be made available in the ERP system directly by means of the data connector. Therefore, you can be informed of changes such as planned batch changeovers, product changes or packaging details.

FAST FACTS

▸ Direct connection between production facilities and ERP
▸ Two-way communication
▸ Production data and events are available in real-time
▸ No middleware required