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Efficient plant operation through high-performance HMI based on responsive web technologies

Modern plants are characterised by continuous availability, a high degree of digitalization and resource-optimized processes. Nevertheless, it is equally important that these new capabilities are presented to the operators in a way that they are concise and easy to use to prevent maloperation. Additionally, the user interface must be accessible from several locations, including the control room, local operator stations and mobile devices.

As a result, the HMI system must be able to respond to different screen resolutions, have an integrated user management system that grants and coordinates various accesses as well as provide an object library for a clear, modern and easy-to-build visualization.

These requirements can best be met through a light-weight Server-client architecture implemented by utilizing proven and high-performant web technologies.

Hotel Palota *****
Miskolc-Lillafüred
2-4 October 2023

**Process Control
Systems Meeting**

PCS



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Since 2017, Laurids Wetzel is a member of the Process Industry Management at the Beckhoff Automation headquarters in Verl, Germany. He is responsible for the process industry software development as well as global customer care.

Laurids completed his practice-integrated bachelor's degree Mechatronics/Automation (B.Eng.) in 2020 and additionally his master's degree Mechatronics and Robotics (M.Sc.) in 2023.

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