



The One-Click Dashboard from TwinCAT Analytics is one of the latest developments that saves a lot of valuable engineering time.

Control cabinet design and HMI

Along with software development, it is also critical to consider control cabinet design with the overall automation technology. In order to increase engineering efficiency, TwinCAT offers an interface for the standardized exchange format AutomationML. With this TwinCAT XCAD interface, topology data from ECAD systems can be transferred to TwinCAT and, if necessary, additional PLC content can be generated automatically.

A human machine interface (HMI) is also almost always part of the machine software in automation technology. Its creation should be closely connected with the PLC development. For this purpose, TwinCAT HMI offers an advanced architecture with HTML5 and JavaScript as well as an engineering interface in Visual Studio®. Here the user does not need to have any knowledge of HTML and JavaScript. A what-you-see-is-what-you-get (WYSIWYG) editor instantly shows the resulting visualization in the browser. This makes it very easy to get started.

Convenient diagnostics – even during operation

Diagnostic tools are important when the machine is being programmed or even when it is already in operation at the end customer's facilities. When a machine is in operation, it may be necessary to record analog or digital values and display them graphically, which is easy with TwinCAT Scope and

its various display formats and options to export data to Excel files, among other things.

If a large number of machines need to be analyzed and optimized worldwide, TwinCAT Analytics can be used. The collection, storage and analysis of data are completely integrated. With TwinCAT HMI and the One-Click Dashboard (pictured) from TwinCAT Analytics, the results can be displayed quickly and without any programming effort. And all this is also possible in the cloud. With TwinCAT Cloud Engineering, all engineering tools can be used in a virtual machine in the cloud. The advantage for the programmer is no complex installation of tools on the laptop; an Internet browser is sufficient.

Left: Béla Höfig,
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Right: Dr. Josef Papefort,
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