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Siemens TIA Portal with more openness and end-to-end work processes

- **TIA Portal V14 SP1: Practical function extensions for the TIA Portal V14 engineering framework**
- **Focus on openness and engineering efficiency**
- **AutomationML for standardized data exchange with engineering software and CAE systems**

Siemens is expanding its engineering framework to include a range of new practical functions to shorten engineering times with Service Pack 1 for TIA Portal V14 (Totally Integrated Automation Portal). The main focus of the innovations in TIA Portal V14 SP1 is bringing openness to other systems. This includes the standardized, bi-directional exchange of engineering data via AutomationML (Automation Markup Language) using engineering software such as Eplan, the TIA Selection Tool or other CAE (Computer Aided Engineering) systems. New features for the TIA Portal Openness programming interface now also enable the automated handling of hardware configurations, including fail-safe objects. This allows users to automate redundant functionality engineering and benefit from shorter development times, as well as minimized error rates.

The TIA Portal engineering framework is a central access point for Siemens when it comes to automation within digital enterprises and the design of automation solutions in the context of digitization. TIA Portal V14 SP1 has also expanded TIA Portal Openness, meaning that it is now easier to make work processes digital from start to finish. For example, the virtual controller Simatic S7-PLCSIM Advanced can be used to test controller functions at an early stage and link them to simulated machine models for virtual commissioning.

Another example is the ability to use Simatic know-how to program and diagnose robot controllers via Simatic S7-1500 function blocks.

From V14 SP1 and V13 SP2 onwards, the TIA Portal engineering framework also supports Windows 10, thus providing flexible coverage for user operating system requirements. To enable the simple and central management of passwords for know-how, write and copy protection, users can take advantage of the all-new password API in TIA Portal V14 SP1. The interface allows the simple implementation of a password management system for proprietary applications or secure authentication concepts using dongles, for example. Simatic ProDiag, the software option for machine and plant diagnostics, has been expanded include criteria analysis for focused troubleshooting. This enables the use of the HMI PLC Code Viewer to retrospectively visualize the states in which faults occurred and to identify their root cause even more efficiently. In the Step 7 engineering tool, machine manufacturers can now use the novel single block comparison function for faster editing, allowing, for example, the detailed comparison of individual blocks directly from the project navigation area in both offline/offline or online/offline operation.

Background information:

The Siemens TIA Portal (Totally Integrated Automation Portal) enables users to perform automation and drive tasks quickly and intuitively through efficient configuration. The software architecture is designed for high efficiency and ease of use, and is suitable for both new and experienced users. It offers a standardized operating concept for controllers, human machine interfaces (HMI) and drives, as well as for shared data storage and consistency, for example during configuration, communication and diagnostics, as well as offering powerful libraries for all automation objects. The simple engineering in the TIA Portal facilitates full access to the entire spectrum of digitized automation, including digital planning, integrated engineering and transparent operation. Alongside PLM (Product Lifecycle Management) and MES (Manufacturing Execution Systems) within the Digital Enterprise Software Suite, the TIA Portal complements the holistic range of software available from Siemens for companies on the path toward Industry 4.0.



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This press release and a press photo are available at www.siemens.com/press/PR2017030195DFEN

Further information about converting can be found at www.siemens.com/tia-portal

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