SIEMENS

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TIA Portal engineering – goes cloud!

- **The TIA Portal moves into the cloud: flexible use of the engineering framework in various phases of development**
- **Fast, flexible access to pre-installed engineering environments**
- **Integration of the widest range of PC and tablet hardware into the development process**
- **Fast access to project data through storage in a cloud-based FileShare**

With the TIA Portal (Totally Integrated Automation Portal) in the cloud, Siemens is expanding the options of using the engineering framework even more flexible in the various phases of planning, engineering and commissioning. The possibilities that this offers are based on all the main features of TIA Portal V15.1, with additional available innovations of TIA Portal options – the simulation of the application in the cloud environment with the help of S7-PLCSIM Advanced, full use of the application possibilities, for example the complete controller portfolio including the new, redundant S7-1500R/H controller, the configuration of visualizations with HMI Panels, PC-based runtime systems, and the fully integrated Sinamics drives portfolio.

Using the TIA Portal in the cloud provides fast, flexible, and web-based access to pre-installed environments using any type of hardware, without any need for installation, and at any time and place. This substantially reduces the effort required for testing new TIA Portal innovations, and so enables the TIA Portal to adapt flexibly to the user's hardware and way of working. Integrating the widest range of PC and tablet hardware into the development process of machines and plants increases flexibility while reducing the engineering hardware requirements to a minimum. There is no need for local installation on the hardware as access is web-based.

The scalability of the cloud architecture enables customized adaptions to the user's requirements. This includes not only the performance, but also the individual adaption for users who would like to access pre-installed TIA Portal environments. This enables users to adapt very quickly without any waiting time. It can also substantially reduce the costs of installation and software maintenance.

The central storage of project data in a cloud-based FileShare permits fast, easy access no matter where the user is located. It also makes it significantly easier to distribute project data throughout the team. This can completely eliminate the need to copy data from one device to another.

Background information:
Launched in 2010, 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, and also offers powerful libraries for all automation objects. The simple engineering in the TIA Portal facilitates full access to the entire spectrum of digitized automation, from digital planning and integrated engineering up to 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 Industrie 4.0.

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Contact for journalists

Andreas Friedrich

Phone: +49 1522 210-3967; email: friedrich@siemens.com

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