Communications processor for open data transmission in industry

- New CP 443-1 OPC UA communications processor
- Open Industrial Ethernet interface for Simatic S7-400
- Multi-vendor communication in automation technology
- Used, for example, in the automotive, oil & gas and food industries

Siemens has expanded its Simatic S7-400 controller to include the CP 443-1 OPC UA (unified architecture) communications processor. The processor uses the standardized OPC UA interface for the fast, direct exchange of data between automation components from different manufacturers. Users can install the CP 443-1 OPC UA as both a client and as a server, and so, for example, link a Simatic S7-400 to ERP systems. It is mainly used in Simatic S7-400 applications, e.g. in the automotive, oil & gas as well as food industries. The processor can also be used in traffic engineering, for example in tunnel automation. With this processor, Siemens has created an important basis for comprehensive open communication in industrial networks.

As an OPC UA server, the new communications processor provides data of the Simatic S7-400, which OPC UA clients such as HMI (Human Machine Interface), MES (Manufacturing Execution System), ERP and SCADA systems can access (data access read, write and monitoring). This enables, for example, users to read production data such as vehicle data from an ongoing process and transfer it to ERP systems. Used as an OPC UA client, the processor collects and writes data to and from OPC UA servers. This facilitates, for example, communication with an OPC UA-compatible controller from another manufacturer. Users can configure the functions of the communications processor in the TIA Portal with the STEP 7
Professional V14 engineering software or in existing systems with STEP7 V5.5.

OPC UA is a standard for multi-vendor communication in the automation industry. The CP443-1 OPC UA supports OPC UA according to the specification 1.02. Integrated OPC UA security functions (for authenticating, authorization encrypting and signing data) minimize the risk of unauthorized data access.

Together with software, security and services, industrial communications is one of the four elements of the Siemens Digital Enterprise. The CP 443-1 OPC UA communications processor expands the industrial communication product portfolio and thus represents a contribution toward the digitization of industry.

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Additional information about the CP 443-1 OPC-UA can be found at: http://www.siemens.com/simatic-classic-s7-opcua
Additional information on the subject of OPC UA: www.opcfoundation.org

This press release and a press picture are available at http://www.siemens.com/press/PR2016040212PDEN

Contact for journalists:
Dr. David Petry
Phone: +49 (9131) 7-26616; E-mail: david.petry@siemens.com

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Further information is available on the Internet at www.siemens.com