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Siemens CloudConnect simplifies IIoT data transfer to cloud-based solutions

- **New CP 1545-1 communications processor for use with Simatic S7-1500**
- **New Simatic CloudConnect 7 Industrial IoT Gateway for existing systems**
- **Event-driven communication reduces network load and costs**
- **Standardized MQTT protocol enables transmission to various cloud platforms**

The Siemens CloudConnect portfolio simplifies data transfer within the IIoT (Industrial Internet of Things) to cloud-based solutions. To this end, Siemens is offering the new Simatic CP 1545-1 communications processor, designed for use with Simatic S7-1500 in modern automation environments. For the cloud connection of existing systems, Siemens is now also offering the new Simatic CloudConnect 7 Industrial IoT Gateway. With CloudConnect, it is even easier for users to benefit from cloud-based data analyses. They can enhance machine availability by evaluating data for predictive maintenance purposes, for example, or machine manufacturers can offer new marketing models such as pay-per-use.

Instead of every single sensor having to be connected to the cloud, the Simatic S7-1500 enables field data aggregation and subsequent linking to additional process-relevant information if required. The CP 1545-1 then transfers the data to the cloud platform. The communications processor also features an integrated Stateful Packet Inspection (SPI) firewall for protecting the S7-1500 against unauthorized access. The CloudConnect functionality is easy to project in the TIA Portal using just a few input screens.

There are two ways to connect existing systems with the Industrial IoT Gateway CloudConnect 7: Simatic CC712 facilitates connection of one Simatic S7-300 or S7-400 via Industrial Ethernet by means of the S7 protocol. With Simatic CC716, on the other hand, up to seven Simatic S7 controllers can be connected via Industrial Ethernet or Profibus/MPI interfaces.

The existing automation program does not have to be changed in order to select and transfer the essential information. In addition, the data read by CloudConnect 7 from lower-level S7 stations can be made available as OPC UA variables (server). This enables standardized data exchange, for example with MES systems or HMI and third-party controllers.

The open Message Queuing Telemetry Transport (MQTT) cloud protocol is used in all cases. This established standard also makes it possible to transfer data to MindSphere, the IoT operating system from Siemens, as well as to other cloud platforms.



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For further information on this topic please go to www.siemens.com/cloudconnect

This press release and a press picture are available at

www.siemens.com/press/PR2019030168PDEN

More information on Siemens at the Hannover Messe 2019 is available at

www.siemens.com/press/hm19 and www.siemens.com/hannovermesse

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