

Straight talk: TSN The turbo for PROFINET and OPC UA.

What's the next big step for digitalization with **PROFINET** and OPC UA?

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... provides the answer to many questions, such as:



What creates the basis for open, integrated networking within the company to enable flexible and deterministic production?



What offers guaranteed and scalable bandwidths as well as a low transmission latency?



What is based on encapsulated streams and ensures that different protocols – even realtime capable – can use the same Ethernet network?



What makes Quality of Service (QoS) possible in standard Ethernet networks?



What helps PROFINET and OPC UA to ensure the basis of the digital enterprise in future plant networks?

Straight talk: our commitment for digitalization

Digitalization is setting the bar very high, especially when it comes to industrial communication. Siemens already builds on the rapidly expanding open communication standard Industrial Ethernet – with PROFINET at field level and OPC UA from the control level. Here, the benefits are perfectly combined within a single network. But Siemens is going one step further – with TSN (Time-Sensitive Networking), an Ethernet-based technology.

From the automotive industry and machine building to the food and beverage industry, TSN offers key benefits for industrial production – like reserved bandwidths, Quality of Service (QoS) mechanisms, a low transmission latency, and the simultaneous transmission of multiple protocols which can also be real-time capable.

Straight talk: TSN

TSN creates a standardized basic technology within the framework of IEEE 802.1. It is composed of a number of existing IEEE standards and exclusively pertains to the OSI layer 2 of communication. This means that the user interface remains unchanged even with TSN.

Published by Siemens AG 2018

Siemens AG Digital Factory P.O. Box 48 48 90026 Nuremberg Germany

Article No. DFFA-B10489-00-7600 Printed in Germany Dispo 06334 gB 180125 WS 04183.0

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