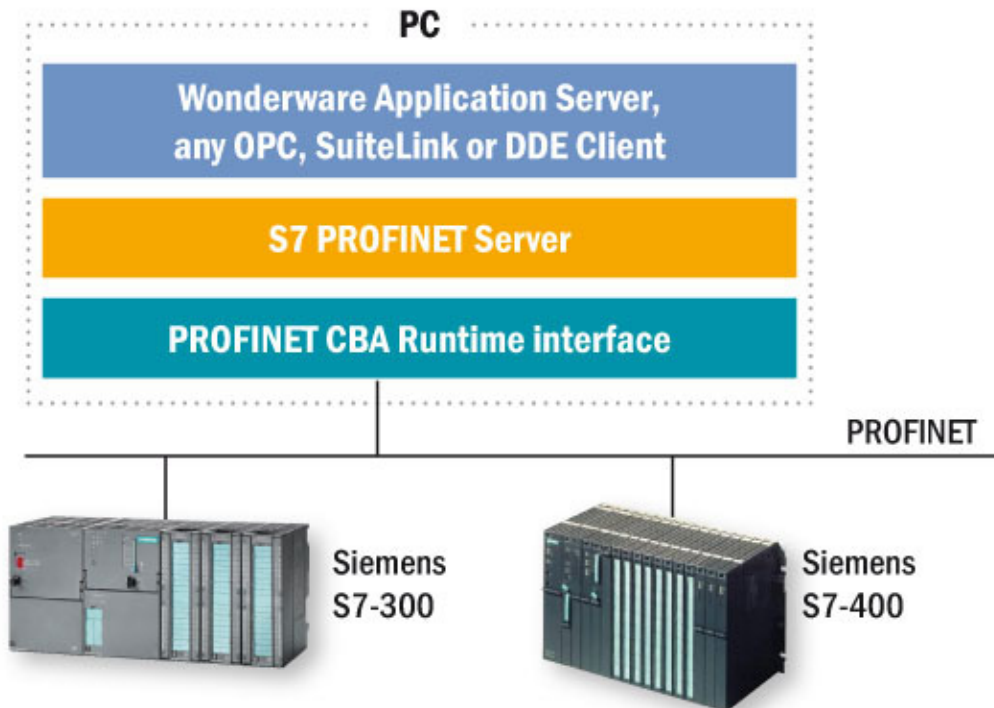




S7 PROFINET Communication Server

High-speed communication with Siemens S7 controllers via PROFINET

The Klinkmann Automation **S7 PROFINET Communication Server** is a Microsoft Windows application program that acts as a communication protocol Server and enables other Windows application programs to access the data from S7-300/400 controllers via the PROFINET interface. The S7 PROFINET Server provides access to Siemens S7 PLCs through an off-the-shelf standard Ethernet network interface card in the computer, based on PROFINET specification V2.02 and using the PROFINET CBA Runtime Software version 2.02:



There are two different S7 PROFINET Server versions available:

- S7 PROFINET Server “Suite Link and DDE” version (ordering number DR 590 10), supporting SuiteLink, FastDDE and DDE protocols;
- S7 PROFINET Server “OPC and DDE” version (ordering number DR 590 11), supporting OPC and DDE protocols.

The **main advantage** of S7 PROFINET Server is a **very fast communication speed** if compared with other Ethernet based software used for communication with Siemens S7 controllers: for example, only 15 milliseconds read (polling) cycle is needed to read 1400 consecutive bytes from controller.

The S7 PROFINET Server can communicate with any S7-300/400 CPU supporting the PROFINET interface.

FEATURES

Faster communication speed if compared with other Ethernet based software used for communication with Siemens S7 controllers: usually about 15 milliseconds read (polling) cycle is needed to read 1400 consecutive bytes and about 45 milliseconds read (polling) cycle is needed to read 3999 consecutive bytes.

The S7 PROFINET Server requires the PROFINET communication support is added to S7 PLC program by using STEP7 programming software: setting a checkbox in S7 CPU configuration, defining that the CPU is used for PROFINET CBA communication and creating a PROFINET interface data block.

The maximum amount of consecutive data accessible from one S7 controller is 3999 bytes, which should start from the beginning of PROFINET interface data block.

The S7 PROFINET Server supports item/point names that are consistent with the addressing and point naming used in Siemens S7 PLCs for accessing the Data Blocks.

The wide range how to interpret the S7 PLC data is supported: bits, bytes, byte arrays (as strings), chars, char arrays (as strings), words, word arrays (as strings), integers (signed, BCD), integer arrays (as strings), double words (unsigned, BCD), double word arrays (as strings), double integers (signed, BCD), double integer arrays (as strings), reals, real arrays (as strings).

Minimizes system message traffic by dynamically calculating and optimizing poll lists for client-requested items/points.

Supports multiple topics for each PLC, allowing different data update rates.

Provides a communication status flag for each topic. Supports standard DDE among multiple applications.

The S7 PROFINET Server "SuiteLink and DDE" version is developed by using Wonderware I/O Server Toolkit ver. 7,2,1,6. The FastDDE (Version 2) and DDE support for "OPC & DDE" version is implemented by Wonderware I/O Server Toolkit ver. 5.0 (008).

ORDERING INFORMATION

S7 PROFINET SuiteLink and DDE Server
S7 PROFINET OPC and DDE Server

DR59010
DR59011



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