

S7/S5 OPC Server

Easy data access combined with high performance

One S7/S5 OPC Server is all you need to quickly and conveniently access process and diagnostic data in up to 256 Siemens S5, S7 200 / 300 / 400 and WinAC controllers as well as Siemens compatible controllers.

EASY COMMUNICATION WITH SIEMENS CONTROLLERS

You can use any OPC compliant client application to read and write all input and output data, data blocks, markers, timers, and counters in the controllers. Up to 256 controllers can be accessed simultaneously. The variables are consistently addressed using STEP7* or STEP5 syntax. No changes to the control program are required for communication with the S7/S5 OPC Server.

FLEXIBLE, HIGH-PERFORMANCE SOLUTION

Access to the controller is available via Ethernet, PROFIBUS, USB or serial communication. CPs from various manufacturers as well as Softing gateways and Softing NETLink adapters are supported for Ethernet communication. The S7/S5 OPC Server employs a unique and proprietary algorithm to optimize the data throughput between the OPC Server and the SIEMENS controllers by automatically re-combining PLC Read and Write Requests for optimal performance. This feature alone renders Softing's OPC Server the best-in-class product.

CONFIGURATION FROM STEP7 OR EXCEL, DIAGNOSTICS VIA WEB BROWSER

The OPC namespace is extremely quick to configure by importing symbolic names from STEP7 projects or Excel files. Existing configurations can be exported from software applications like visualization or process control systems to Excel, and are then conveniently uploaded to the S7/S5 OPC Server. The OPC server provides a web server for diagnostics and process data visualization. Simply use a standard web browser to display PLC states and process data. For secure, high-performance remote access without DCOM, the S7/S5 OPC Server includes Softing's OPC Tunnel. This eliminates the need to configure DCOM settings and saves you considerable cost and time.

CUSTOMER BENEFITS

- > Fast and easy data access to up to 256 controllers using intelligent auto configuration options for time-saving setup and commissioning
- > Flexible use - one OPC server for all controllers and CPs, for Ethernet, PROFIBUS and serial communication
- > Best-in-Class performance and reliability - designed for 24/7 operation



TECHNICAL DATA

Communication type	– Access to process data of S7-300 and S7-400 controllers via Ethernet or PROFIBUS – Access to process data of S7-200 controllers via Ethernet – Access to Siemens S5 controllers via Ethernet
OPC specifications	Data Access 1.0a, 2.05, 3.0 and OPC XML-DA
OPC interfaces	– All mandatory interfaces defined in the Data Access and XML-DA specifications – Dynamic namespace with STEP7 and STEP5 semantics for OPC item names – Static namespace through import of symbolic names from STEP7 or Excel (CSV format)
OPC data types	VARIANT data types UI1, I1, UI2, I2, UI4, I4, R4, R8, BOOL and arrays of these data types, BSTR
S7 data types	BOOL, BYTE, CHAR, WORD, INT, BCD, S5TIME, DATE, DWORD, DINT, REAL, TIME, TIME_OF_DAY, DATE_AND_TIME and arrays of these data types, STRING
S5 data types	KG, KC
Implementation types	OutProc server, service
Hardware requirements	Windows enabled PC. For communication by: PROFIBUS – Softing PROFIBUS PC cards and Softing PROFIBUS/Ethernet gateways – Siemens CP 5511, CP 5611, CP 5613 (requires hardware driver from card manufacturer) Ethernet – Standard Ethernet card for PC, Siemens CP 343-1 for S7-300, CP 443-1 for S7-400 PLC adapter – Softing NETLink PRO Ethernet or NETLink PRO USB Adapter for S7 interface – Softing S5-PCLink Ethernet Adapter for S5 interface (AS511)
Operating systems	Windows 2000/XP/2003/Vista with the latest service packs (status: November 2010)
Documentation	Online help in English and German
OPC Certification	Test with several OPC clients at the OPC Foundation's Interoperability Workshop, test using the OPC Foundation's Compliance Test Tool
Demo version	Full functionality, time limited to 90 minutes (30-day temporary license available on request at info.automation@softing.com)

ORDER NUMBER

OPC-S7	License for using the S7/S5 OPC Server functionality on one computer (software copy protection)
LIC-USB-1	USB hardware key for copy protection, only in combination with OPC-S7

ADDITIONAL PRODUCTS AND SERVICES

NETLINK-PRO-ETH,	Ethernet adapter, DIN rail mounted
NETLINK-PRO-USB	USB S7 adapter, DIN rail mounted
NETLINK-ETH-COMPACT	Ethernet adapter, compact
NETLINK-USB-COMPACT	USB S7 adapter, compact
S5-PCLink	Ethernet S5 adapter
TRA-OPC-ANW	OPC User Training, 2-day
OPC-ENTW-TAG	OPC Engineering / Consulting

Softing is a world-leading provider of industrial communication solutions and products designed around the needs of process and production automation. With our interdisciplinary approach and our many years of experience, we offer effective solutions to meet even the most complex requirements.

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