

S7/S5 OPC Server

Easy Data Access Plus High Performance

The S7/S5 OPC Server provides quick and convenient access to process and diagnostic data in up to 256 Siemens S5, S7-200 / 300 / 400 / 1200, WinAC, as well as Siemens compatible controllers.

EASY COMMUNICATION WITH SIEMENS CONTROLLERS

Using the S7/S5 OPC Server allows any OPC compliant client application to read and write all input and output data, data blocks, markers, timers, and counters in Siemens controllers. Here 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 communicating with the S7/S5 OPC Server.

FLEXIBLE, HIGH PERFORMANCE SOLUTION

Access to the controller is available via Ethernet, PROFIBUS, USB or serial communication. For Ethernet communication CPs from various manufacturers, Softing Remote Interfaces and Softing NETLink adapters are supported. The S7/S5 OPC Server employs a unique and proprietary algorithm to re-combine the individual PLC read and write requests resulting in an optimized data throughput between the OPC Server and the controllers. 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. For instance, existing configurations can be exported from software applications like SCADA 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. PLC states and process data can be displayed by simply using a standard web browser. 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 the user considerable cost and time.

CUSTOMER BENEFITS

- > Fast and Easy Data Access to Up to 256 Controllers
- > Flexible Use
- > Fast and Easy Configuration



TECHNICAL DATA

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| Supported Communication Types | <ul style="list-style-type: none">> Access to Process Data of S7-300 and S7-400 Controllers Via Ethernet or PROFIBUS> Access to Process Data of S7-200 and S7-1200 Controllers Via Ethernet> Access to Process Data of S5 Controllers Via Ethernet |
| Supported OPC Specifications | OPC Data Access V1.0a, V2.05, V3.0, OPC XML-DA |
| Supported OPC Interfaces | <ul style="list-style-type: none">> All Mandatory Interfaces Defined in the OPC Data Access and OPC XML-DA Specifications> Dynamic Namespace with STEP7 and STEP5 Semantics for OPC Item Names> Static Namespace Through Import of Symbolic Names from STEP7 Projects or Excel Files (CSV Format) |
| Supported OPC Data Types | VARIANT Data Types UI1, I1, UI2, I2, UI4, I4, R4, R8, BOOL and Arrays (VT_ARRAY) of These Data Types, BSTR |
| Supported 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 |
| Supported S5 Data Types | KG, KC |
| Implementation Types | Application (OutProc Server), Windows Service (Service) |
| OPC Certification | Test With Several OPC Clients at the OPC Foundation's Interoperability Workshop Test Using the OPC Foundation's Compliance Test Tool |
| Hardware Requirements | Windows Enabled PC For Communication Via PROFIBUS: <ul style="list-style-type: none">> Softing PROFIBUS PC Interfaces and Softing PROFIBUS Remote Interfaces> Siemens CP 5511, CP 5611, CP 5613 (Requires Hardware Driver From Card Manufacturer) For Communication Via Ethernet: <ul style="list-style-type: none">> Standard Ethernet Card for PC, Siemens CP 343-1 for S7-300, CP 443-1 for S7-400 For Communication Via PLC Adapter: <ul style="list-style-type: none">> Softing NETLink PRO Ethernet Adapter or NETLink PRO USB Adapter for S7 Interface> Softing S5-PCLink Ethernet Adapter for S5 interface (AS511) |
| Supported Operating Systems | Windows XP, Windows 7, Windows 8, Windows Server 2003, Windows Server 2008 (32 Bit, 64 Bit), Windows Server 2008 R2 (32 Bit, 64 Bit), Windows Server 2012, Windows Server 2012 R2 (As of February 2015) |
| Demo Version | Full S7/S5 OPC Server Functionality, Time-Limited to 90 Minutes |

SCOPE OF DELIVERY

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| S7/S5 OPC Server | Software on CD-ROM |
| Documentation | Online Help in English and German |

ORDER NUMBERS

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| DCF-DY-4100 | License for Using the S7/S5 OPC Server on One Computer, Activation Via Software Key |
| DCF-DY-4101 | License for Upgrade to S7/S5 OPC Server on One Computer, Activation Via Software Key |
| UAC-DD-0100 | USB Hardware Key for S7/S5 OPC Server, Replacement of Software Key |

ADDITIONAL PRODUCTS AND SERVICES

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| GPL-CS-191000 | echolink S7-compact |
| S5-PCLink | Ethernet Adapter for S5 interface |
| 100-1030-01 | Training "OPC Server und Client Within Applications" |
| 120-1010-01 | Engineering Service |

Softing Industrial Automation is a world leading provider of industrial communication products and technologies for manufacturing and process automation. Our products are tailored to the requirements of system integrators, device vendors, machine and equipment manufacturers or end users and are known for its ease of use and functional advantages.

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