ACCON-AGLink

The fast and flexible communication library

For control systems with increased computational complexity PCs are the first choice. ACCON-AGLink ensures smooth data exchange between PC and PLC. Self-created PC programs can thus easily access the various controllers.

Perfect fields of application

ACCON-AGLink is independent from the applied PLC hardware: No matter which PLC hardware you want to access to, with ACCON-AGLink you don't have to care about the details.

In addition, ACCON-AGLink is independent of the communication path used: The most diverse controller generations and PLC types support the most varied communication paths - ACCON-AGLink as well.

Varied ranges of application

ACCON AGLink comes with sample programs for most programming languages. Therefore we have developed the API Guide for you. Not only can you interactively run and test every single function of ACCON-AGLink, you can also view the source code in C ++, C #, Java, VB.net or Delphi and copy it into your development environment.
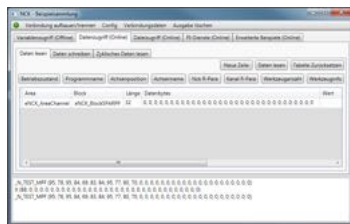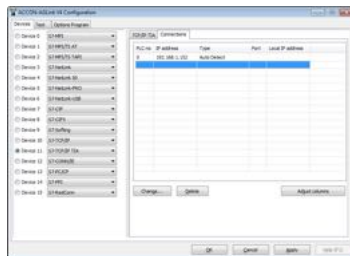
> "The other vendors had no solution, because one would still have to handle with an additional PLC somehow. With ACCON-AGLink we really have the deluxe solution. That's more than expected."

Different options of how to access data via ACCON-AGLink:
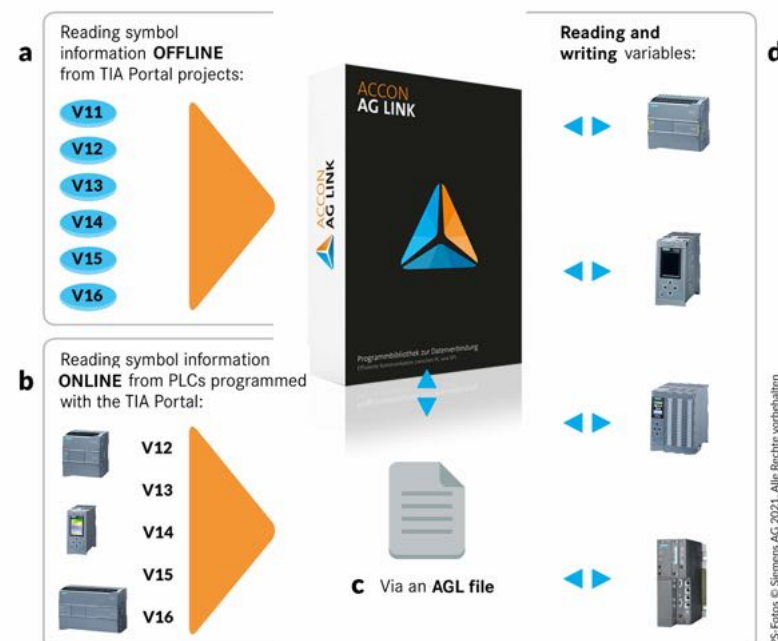
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Convincing and varied

You use the Siemens TIA Portal V16? ACCON-AGLink also supports the S7-1200 / S7-1500 with optimized block access and masters the import of symbols directly from the TIA Portal versions 11 to 16.

As a special feature, ACCON-AGLink offers the possibility of event-controlled response to PLC telegrams in or-der to avoid the need to start constant queries. You only want to send certain values cyclically from the PLC without having to ask each time? This feature is already implemented in ACCON-AGLink.

Do you program on Linux? In addition to Desktop Linux, Raspberry PI 3 (Linux) is also supported.

You have the choice

ACCON-AGLink is available as a single license or as a developer license. The single license includes all available modules, optionally with TIA functionality. The single license must be purchased for each PC.

Alternatively, you can also purchase the developer license. This can consist of any combination of the available ACCON AGLink modules. Every developer needs his own license from ACCON-AGLink. Under license terms, the Developer License includes an unlimited number of runtime licenses. In addition, a maintenance contract is available for the developer license.

Technical highlights

- Supports the PLC types S7-200, S7-1200, S7-1500, S7-300, S7-400, S7-400H, LOGO! 0BA7, LOGO! 0BA8, S5, as well as the machine tool control SINUMERIK 840D
- Communication via MPI, PROFIBUS, PPI, TCP/IP and RK512/3964(R)
- Supports all common programming languages via DLL or Shared Object
- All TIA functions are available for the Java wrapper
- Uniform software for all control types and for all supported operating systems
- Change of communication way is possible without changing the program
- Extensive functionality to read and write process data
- Extensive range of comfort functions
- Access to S7 Symbolics (with module "SymbolikPro")
- TIA Portal V16 is supported via online and offline access
- Symbol import from TIA Portal projects (*.ap11 to *.ap16)
- Online symbol import from PLCs projected with TIA Portal
- Available for Windows, Windows CE, Linux, Linux Embedded, Solaris, OS9000 and VxWorks
- Maintenance contract available
- Further controllers and connections available on request
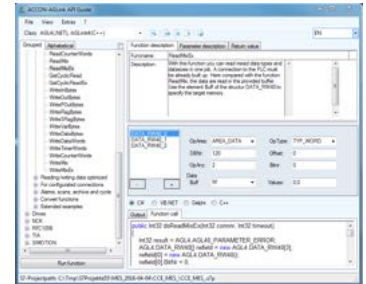
"We are very satisfied with ACCON-AGLink. Everything worked wonderfully. ACCON-AGLink provides good exam-ples and the connection is really easy."

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Technical details
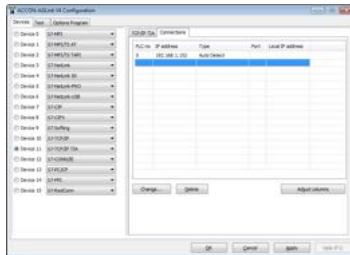
Supported operating systems	Windows XP, 2008 R2, 7, 8.1, 2012 R2, 10, Server 2016, Windows CE (V4 and above), Linux, Linux Embedded, Solaris, OS9000, VxWorks
Supported PLCs	S5, S7-200, S7-1200, S7-1500, S7-300, S7-400, S7-400H, S7-300/400-compatible PLCs (e.g. Vipa, Saia, Berthel), LOGO! 0BA7, LOGO! 0BA8, devices with 3964/3964R protocol, devices with RK512 protocol, devices with RFC1006 protocol, Software Controller S7-1505S & S7-1507S, PLC Simulation SIMATIC S7-PLCSIM Advanced

Supported communication channels (selection)

PLC interface	PC interface		
	TCP/CP	USB	Siemens CP
S7-300/400/400H via MPI	ACCON-NetLink-PRO compact	ACCON-NetLink-USB compact	+
S7-300/400/400H via PROFIBUS	ACCON-NetLink-PRO compact	ACCON-NetLink-USB compact	+
S7-300/400/400H via TCP/IP (PN/IE)	+	−	+
S7-200 via PPI	ACCON-NetLink-PRO compact	ACCON-NetLink-USB compact	+
S7-200 via TCP/IP	+	−	+
S7-1200/1500 via TCP/IP	+	−	+
LOGO! 0BA7, LOGO!	+	−	−
SINUMERIK[1] via PROFIBUS	ACCON-NetLink-PRO compact	ACCON-NetLink-USB compact	−
SINUMERIK[1] via TCP/IP	+	−	−
Drives[2] via PROFIBUS	ACCON-NetLink-PRO compact	ACCON-NetLink-USB compact	

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Supported communication channels (selection)

PLC-interface	PC interface		
	TCP/CP	USB	Siemens CP
Drives² via TCP/IP	+	–	–
S5 via PG bushing (AS511)	ACCON-S5-LAN	ACCON-COM-Kabel USB	–
S5 via TCP/IP	+	–	–
RFC1006	+	–	–

+ Possible without any adapter
Not possible
[1] SINUMERIK 840D pl or SINUMERIK 840 D sl
[2] MicroMaster or SINAMICS

Available licenses

Windows	Single license, Single license TIA, RFC 1006 developer license, RK512 developer license, S5-AS511 developer license, S5-TCP/IP developer license, S7-PB developer license, S7-PC/CP developer license, S7-RedConn developer license, S7-serial developer license, S7-TCP/IP developer license, S7-TCP/IP TIA developer license, S7-SymbolikPro developer license, S7-SymbolikPro TIA developer license
WinCE	RFC 1006 developer license, RK512 developer license, S5-AS511 developer license, S5-TCP/IP developer license, S7-PB developer license, S7-RedConn developer license, S7-serial developer license, S7-TCP/IP developer license, S7-TCP/IP TIA developer license, S7-SymbolikPro developer license, S7-SymbolikPro TIA developer license
Linux	RFC 1006 developer license, RK512 developer license, S5-AS511 developer license, S5-TCP/IP developer license, S7-PB developer license, S7-RedConn developer license, S7-serial developer license, S7-TCP/IP developer license, S7-TCP/IP TIA developer license, S7-SymbolikPro TIA developer license
Linux Embedded	S7-TCP/IP developer license, S7-TCP/IP TIA developer license, S7-SymbolikPro TIA developer license
VxWorks	S7-TCP/IP developer license
WinCE SDK	S7-TCP/IP developer license, S7-TCP/IP TIA developer license, S7-SymbolikPro TIA developer license

”I have read very good evaluations and statements about the communication library ACCON-AGLink. Then I tested ACCON-AGLink and was pleasantly surprised.“

Notes on the ACCON-AGLink developer licenses:
The TIA modules are only available with a maintenance contract. The S7-TCP/IP TIA module additionally requires the S7-SymbolikPro TIA module. The RedConn module also requires at least one additional communication module.