



SICLIMAT™ X

AS Connect to X-OS

The software package connects SIMATIC automation stations to SICLIMAT X. It is required for each automation station that was engineered with the SICLIMAT X- engineering manager and the SICLIMAT X block library. The automation station connection X-OS is divided into three classes depending on data points. The software supports automation stations using both a system bus as well as a local bus.

Use

The software package is required to connect the automation stations (AS) SIMATIC-S7 homogenously to the X-OS for the management level. This ensures communications, among other functions, between X-OS and the AS, regardless of the transmission protocols and bus systems:

- Industrial Ethernet
- PROFIBUS

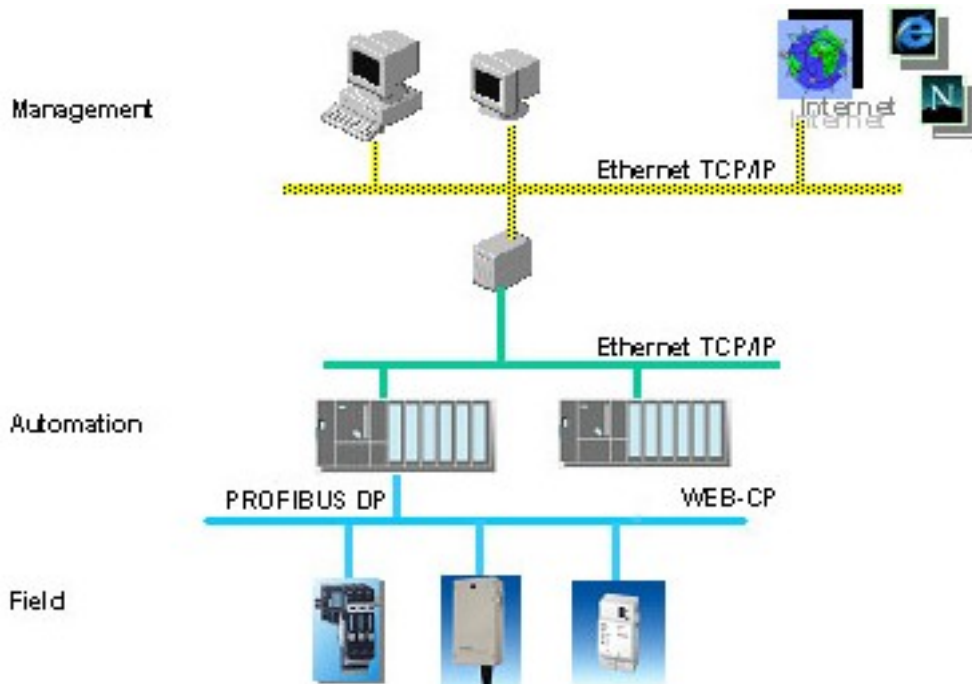
Supported system environment:

Hardware platform	<ul style="list-style-type: none">• SIMATIC S7-300 and SIMATIC S7-400
Local operator panel	<ul style="list-style-type: none">• SICLIMAT TP 177
Web-based operation	<ul style="list-style-type: none">• S7-WEB
Management systems / stations	<ul style="list-style-type: none">• SICLIMAT-X
Communication	<ul style="list-style-type: none">• PROFIBUS• Feldbus : PROFIBUS-DP• Ethernet• SIMATIC MPI
Engineering	<ul style="list-style-type: none">• SICLIMAT engineering tool

Function

In addition to the aforementioned functionality, the software package includes additional functions that guarantee homogenous interaction between the automation and management levels:

- Message buffer for Dynamic Change Of State (DCOS)
- "Time stamp" for messages to the automation station
- Life signs monitoring
- Time synchronization
- Downloadable automation station.
- Uploadable automation station
- Automated save function for meter measured values
- Data interface for test operations
- Peer-to-peer communications between automation stations



AS Connect to X-OS supports employment of SIMATIC S7 as a controller in building automation and control. It also supports connection on the field and management levels.

Performance features

General features:

- Tested blocks.
- Documented functionality.
- Maintained, continuously expanded and, as needed, updated standards.
- Defined software structure through engineering guidelines and tool use.
- Scope and functionality of the applications can be expanded on a modular basis.
- Training measures, hotline as well as maintained, error-corrected libraries help in creating, expanding and modifying the generated applications.

Functionality:

- Input/output functions per VDI 3814.
- Control functions for heating, ventilating and air conditioning technology.
- Base functions for general process technology.
- Optimization functions.
- Operating, monitoring, signaling and surveillance functions.
- Integrated interface to operate / monitor and signal.
- Interface to communicate with building automation and control systems.
- Peer-to-peer function to other controllers / automation stations.

Scaling:

- Scalable functionality thanks to standard blocks
- Licenses are scalable depending on the number of licenses.
- Upgrade licenses for a higher number of data points available.
- See technical data for more details on scaling.

Features

Using the SICLIMAT block libraries means:

- Future-oriented through continuous maintenance and extension.
- On-going adaptation to new SIMATIC components.
- Use of all SIMATIC signal components (input/output components).
- Use of SIMATIC S7-300 CPUs as of CPU 312.
- Open thanks to standardized, documented interfaces.
- Modular software concept allows for extensions.
- Safety through tested, quality-assured software blocks.
- Standardized software structure makes it easier to extend and change.
- Engineering guidelines and / or engineering tools prevent a "jungle" in the software.
- Default safety and operating philosophy.
- Documented block functionality.
- Training offering at SBT training center.
- Comprehensive service offering.

Engineering

Engineering via SICLIMAT X Engineering Manager.

The SICLIMAT AS engineering tool (EM) is available for SICLIMAT **standard blocks**. The tools graphically engineers and tests automation software using SICLIMAT blocks. In addition to automation software, it automatically and consistently generates engineering data for operating/monitoring and management systems.

Ordering

When ordering, please specify the quantity, product name, and type code.

<i>Type</i>	<i>Order number</i>
Supplemental software AS Connect V4x	
AS Connect license for up to 40 data points to SICLIMAT X	6FLAS-ANB-40
AS Connect license for up to 125 data points to SICLIMAT X	6FLAS-ANB-125
AS Connect license for unlimited number of data points to SICLIMAT X	6FLAS-ANB-ALL

Update licenses

<i>Type</i>	<i>Order number</i>
Update license for migration from S5 to S7 or to replace S7	6FLUPDATE-S7

Upgrade licenses

<i>Type</i>	<i>Order number</i>
Upgrade license from 40 to 125 data points for SIMATIC S7 to expand from 6FLAS-ANB-40	6FLUPG40-125

Upgrade license from 125 to an unlimited number of data points for SIMATIC S7 to expand from 6FLAS-ANB-125	6FLUPG125-ALL
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Upgrade license from 40 to an unlimited number of data points for SIMATIC S7 to expand from 6FLAS-ANB-40	6FLUPG40-ALL
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Old connection	For migration only
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<i>Type</i>	<i>Order number</i>
SICLIMAT old plant connection to the X-OS, to connect existing automation stations from LS300 and/or BS760 via the system bus to a server station.	6FLALT-ANBIND

Technical data

	Type	AS connect to X-OS
System requirements	Software	SICLIMAT X standard software as of version 4x
Basic hardware	Hardware	Standard SICLIMAT X hardware
	SIMATIC S7	S7-300, S7-400
	CPU	CPU 314...318, CPU 412...417
Functionality	Signal components	All
	Input/output functions	Yes
	Control functions	Yes
Operating and monitoring	Optimization functions *	TSP, HZO, LZO, HLO, HX
	SICLIMAT TP 177	Yes (as of V1.0)
	S7 WEB	Yes
Management level	SICLIMAT X-OS:	Yes
Communication	PROFIBUS-DP to ET200	Yes
	PROFIBUS-DP network adapter	LON, P-bus, MOD bus, DP-xxx-Link
	Peer-to-peer SIMATIC	Yes
	Operating and monitoring via S7-OPC server	Yes
	Distributed automation as	DP master
Engineering	With SIMATIC STEP 7	No
	With SICLIMAT X EM	Yes

*Optimization functions : TSP = Time switch, HZO,LZO: Heating, ventilation optimization (optimized Start/Stop), HLO = Peak load optimization, HX = HX-diagram optimized operation