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.evo

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Products
Commercial Information

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Asix.Evo 10 awarded with
AUTOMATICON 2019 Gold Medal

Asix.Evo Platform

The Asix.Evo platform is a set of functionally associated software products (modules / tools) for design and realization of industrial IT systems for enterprises, processes, technological lines, machines and devices, providing rich functionality expected from HMI / SCADA / MES systems. Asix supports wide range of functions for operator supervision over the technological objects, assuring both analog and digital data acquisition, possibility of process control, alarm and event recording, report generation and making process data available in the computer network.

Asix is being developed by ASKOM since 1994. In 2012, Asix has been released with a new interface in Evo version - under the name Asix.Evo.

The main features of **Asix.Evo** platform are the following:
- Scalable vector graphics for desktop and web synoptic diagrams – including GIS diagrams
- Fully-featured SCADA applications in web browser, with no need for conversion
- Asix Mobile module for presentation of process data on mobile devices
- Production information portal available on tablets and smartphones
- Efficient process and production data Historian
- Trends of measurements with millisecond sampling
- Integrated permission management with logging of executed control operations
- Advanced scheduling of operator actions
- Remote messaging on important events by e-mails or sms
- Operation time recording and parameter monitoring of devices
- Power Guard module designed to monitor the current consumption of any media
- Synoptic masks with GIS mechanism
- Recipes and event data registration in MS SQL database
- Possibility of application development by C# and Visual Basic .NET languages, in particular to create one's own visualization objects
- A wide set of interfaces for data exchange with other software
- Easy reporting based on Microsoft Reporting Services
- Asix Excel Add-In allows for easy access to the Asix.Evo application data
- Implementation of system validation procedures according to FDA 21 CRF 11 / GAMP4 regulations
- No language barriers: Unicode opens the way to projects in any language
- Tools for multidimensional analysis of historical alarms in accordance with the EEMUA guidelines
- Multiterminal operator station redundancy
- Ability to run application in remote desktop mode of Microsoft RDS
- Pre-configured process information portal in a web browser on tablets and smartphones
- BMS application wizard for WAGO controllers
- Engineering station integrated in each license
- More than 100 communication drivers to collect process data

Additional merits:
- More than 12.000 licenses sold, which verified effectiveness of the system
- Over 50 authorized integrator companies, trained in project implementation

Correct Asix.Evo operation is supported for the following operating system software: Microsoft Windows 7 SP1, Microsoft Windows 8/8.1, Microsoft Windows 10, Microsoft Windows Server 2008R2 SP1, Microsoft Windows Server 2012 / 2016 / 2019 (use one of the earlier versions of Windows does not guarantee full functionality of the product) on hardware equipment which fulfils the operating system requirements. The **Microsoft .NET Framework 4.72** platform is required for proper Asix.Evo package operation**.** Run the application in a web browser requires Internet Explorer 8 or later, or Firefox / Opera / Chrome browsers equipped with the IE Tab addition.

When using the Asix.Evo software functions that require an SQL database, one need to install the freeware MS SQL Express 2012 / 2014 / 2016 (for database to 10GB) or full servers Microsoft SQL Server 2012, Microsoft SQL Server 2014 or Microsoft SQL Server 2016.

The Asix.Evo software operates in one of the following language versions:
- Polish,
- English,
independently from the operating system language. Applications can be created in any language and any alphabet because of the Unicode standard support. It is also possible to change on-line program and application language during operation.

BASIC LICENSES

Asix.Evo platform is offered in the following, functionally different, six BASIC Licenses:
- Engineering Stations,
- Operator Stations,
- Operator Servers,
- Terminals,
- AsixConnect Server.

Standalone Engineering Station:

License is dedicated for development of applications. It allows to create all elements of application and perform run-time tests based either on communication links to PLC's or on virtual variables (with no connection to a physical source of data). The license has no limit on number of process variables but restricts application run-time to two hours; data archiving and alarm servicing are executed only locally.

Network Engineering Station:

License is dedicated for development of network applications. It allows design and testing of applications to work in multiterminal configurations. Thus it has capabilities, beyond the ones of Standalone Engineering Station, to access process data through network channels, to use network archives. Run time in application mode is limited to two hours.

Time Limited Development License:

Engineering Station Licenses are standard for designing and testing applications. However, if the requirements for testing or deploying applications require a license with enhanced functionality, Time Limited Development License may be purchased.
Remark: Development License can not be a target license (run-time) - its use is only possible at the application design, testing and implementation stage.
For development license, the client has the possibility to specify the license type (for a basic license), number of variables and other extension functions. **The Development License is provided in the form of a software-activated license dedicated to a particular computer. The license is valid for 3 months.**

Operator Station:

License is dedicated for local Operator Stations. It also allows to use network data (made available by Operator Servers) as well as makes data available to other applications of Windows environment by DDE/OLE/OPC/.NET server. The operator station provides servicing of alarms in local mode, collects local data archives.

License exists in different types differing from each other by the number of process variables from physical channel and virtual variables (local variables, internal for an individual computer): 32 / 64 / 128 / 256 / 512 / 1024 / 4096 / 8192 variables and without limit on number of variables (i.e. 2^{32} variables).

Method of variables counting for purpose of Asix.Evo license is as follows:

- one analog measurement   = one variable within license limit,
- one 8,16, 32 or 64 bit register   = one variable within license limit,
- one table element (8,16, 32 or 64 bit)   = one variable within license limit,
- one internal (local) variable   = one variable within license limit,
- variable form NONE channel, not archived= does not apply to license limit,
- variable in network channel   = does not apply to license limit *.

*) *It doesn't apply to operator station with 32 variable limit as well as computers that make data available with use of GATEWAY function.*

ATTENTION: one 8, 16 or 32 bit register can transfer information about 8, 16 or 32 digital signals. The register could be split into separate signals at the level of visualization dynamic objects. Using such approach, 64 digital signals will occupy only one variable within the license limit.

Operator Server:

License, like Operator Station, is a license dedicated for **building operator stations** but with additional possibility to export process data (current and archival) to other Asix.Evo computers (operator stations and terminals) and to ensure network alarm servicing (broadcasting actual alarm statuses and alarm acknowledgement on all computers within the network). Apart from all

features of Operator Station, the Operator Server **makes possible to operate in hot-redundancy mode** ensuring functions of data archive synchronization and redundancy of communication channels.

Operator server can work as independent **Historian** (without operator interface), supplying other Asix.Evo computer stations with historical data and reports.

License exists in different types differing from each other by the number of process variables from physical channel and virtual variables (local variables, internal for an individual computer): 64 / 128 / 256 / 512 / 1024 / 4096 / 8192 variables and without limit on number of variables (i.e. 2^{32} variables).

Asix Energy – Monitoring of Energy Media Consumption

License for an EMS-class system (Energy Management System) for management and monitoring of energy media. It is an innovative software used to monitor any energy media, such as: electric energy, gas, heat, comressed air, water, sewage etc. It clearly presents measured and processed data, supporting the process of making strategic decisions aimed at optimizing production costs

Asix Energy is an irreplaceable tool for optimizing the plant operating costs through current control of energy consumption. The system allows to calculate any EnPI coefficients on an ongoing basis. Thanks to the openness of Asix.Evo SCADA platform, on which Asix Energy is based, we gain seamless access to the majority of measuring devices and control systems present on the market, with the possibility of easy extension for full visualization of the entire production process.

The Asix Energy Licensing is based on the number of N connected measuring devices. 1 device you meant as a set of various parameters measurements for one medium in given measuring point obtained from a single measuring device / concentrator. Each device can read no more than 20 measurements / counters (e.g. from one power analyzer you read different power output values, active / reactive / effective power, voltage, current e.t.c).

There are two ways you can buy Asix Energy License:

a) License ASIX-ENERGY.N-US

This License is the ASIX-Unified Solution consisted of the following modules: Asix.Evo operator server, server WWW for simultaneous operation of 1 client, Asix Energy Counters with needed devices number N, MS SQL Server Std Runtime Embedded+1Client (ASIX-US Components). Server WWW Clients as well as MS SQL CAL's you can buy additionally when needed. Included in above US operator server is licensed on variables resulting from multiplication N devices and number of 20. This kind of server doesn't allow you to control the process.

b) License AsCounters.N

This item is just the extension for the existing license by needed number N of Energy devices. There is established that the user have got the standard Unified Solution license (operator server, server WWW, MS SQL Runtime Embedded). The variables needed to work with Energy devices are collected from the operator server license.

Preferential purchase of Microsoft ISV Royalty Embedded Licenses for ASIX-Unified Solutions (US) ONLY

As part of the Microsoft ISV Royalty Licensing, ASKOM offers a purchase of Microsoft software at a very attractive prices (see price list). There are available Licenses of database Microsoft SQL Server and Client Access Licences (CAL) for Windows Remote Desktop Services. Embedded Runtime Licenses are on sale. These products do not have any functional limitations, but are subject to the following licensing restrictions:
- Purchase of a Microsoft License is only possible in conjunction with the simultaneous acquisition of Asix.Evo License. Both Licenses are inseparable.
- The end user may use the licensed Microsoft only in conjunction with the Asix.Evo application as one integrated solution.
- The end user may not use a licensed Microsoft to run other applications or create new applications, or in any other context that is not associated with the solution based on the Asix.Evo application.

Microsoft SQL Server can be licensed on either server-client or per-processor basis. The server-client mode requires the purchase of a License for the server and the appropriate number of CAL access Licenses for all potential clients. In the per-processor mode the purchase of a CAL License is not required.

RELIABLE SOLUTIONS OF AUTOMATION AND PRODUCTION MANAGEMENT SYSTEMS
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Operator Terminal:

License is dedicated for application execution basing on data available on the network only, retrieving by Operator Servers. Operator Terminal can be used in expanded control rooms as **an additional Operator Station without direct links to the PLCs.** It gives also the possibility to run DDE/OLE/OPC/.NET servers and data export to other Windows applications that can retrieve data by the mentioned channel types. This terminal does not limit the number of process variables.

RDS Terminal:

RDS Terminal Licenses (Remote Desktop Services) allows to run many instances of Asix.Evo application on one single Windows Server server. The users access the application using the system remote access services. Besides a specific operating mode, RDS Terminals are functionally identical to the standard Operator Terminals. RDS Licenses allow you to reduce the cost of application administration – Asix.Evo package software as well as an Asix.Evo application are installed only on a single server computer. The application developer has to, however, configure the application in a way ensuring parallel operation of multiple instances – working files (eg. Log files) have to be created in separate folders for each instance. Any computer or a device (tablet/smartphone) may be RDS Terminal, provided RDS client software having been installed (appropriate for operating system being used).

OPC/DDE/OLE Automation/.NET/REST (AsixConnect):

License for a set of interfaces of software that allows you to exchange data with other systems. AsixConnect includes:

- OPC DA 2.0, OPC UA, Automation, .NET and DDE servers for current data exchange;
- OPC HDA, Automation, .NET and OLE DB servers for archived data exchange;
- OPC A&E and .NET server for alarm data available (only for applications developed in classical Asix used till Asix 6 - not in Asix in Evo version);
- REST server providing process data of the Asix.Evo system application; allows sharing resources using the http / https protocol.

Any MS Windows program based on Automation, OPC, .NET or DDE protocols may co-operate with Asix.Evo application by AsixConnect servers. Using servers, one can read / write data for process supervisory control and parametrization. Thanks to such solution current process variables as well as their archived values (registered trend of process variables) are accessible on-line in Windows system environment. Examples of software, basing on Automation and DDE server, for data exchange are Microsoft Office programs: Excel, Access, Word and PowerPoint. The applications created by use of these products and AsixConnect may efficiently enrich functionality of SCADA systems. These applications may be used for data analysis and visualization, model studies, specialized reports generation and designing databases of process variables.

AsixConnect is an integral module of Asix.Evo platform, but it may be also delivered as an independent module to be used on PC stations connected to computer networks containing Asix.Evo data servers. In such a case, AsixConnect makes available to Windows software the process data accessed from remote computer stations connected directly to PLCs.

The OPC UA server is used for sharing data from applications made on the Asix.Evo platform in version 8.1.5 or higher.

The use of OPC UA server requires the purchase of an additional – separate License OpcUaServer (see below)**.**

ENGINEERING Licenses are DEDICATED to development; permissions to work in run-time are limited to two hours.

All other BASIC Licenses, except AsixConnect, give permissions to work both in development and run-time mode of application.

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/)

Asix Engineering Stations	
Name	**Type**
Asix.Evo 10, Local engineering station	ASIX-WDUW
Asix.Evo 10, Network engineering station	ASIX-WDUN
Asix.Evo 10, LICENSE DEVELOPMENT; TIME LIMITED 3 MONTHS; 1 PC;SOFTWARE ACTIVATION	ASIX-DEV-1PC-3MONTH-SOFT

Asix Operator Stations	
Asix.Evo 10, Operator station, 32 variables limit	ASIX-WATW
Asix.Evo 10, Operator station, 64 variables limit	ASIX-WAEW
Asix.Evo 10, Operator station, 128 variables limit	ASIX-WALW
Asix.Evo 10, Operator station, 256 variables limit	ASIX-WABW
Asix.Evo 10, Operator station, 512 variables limit (increase in the number of variables possible for the license of the Asix version: 4 and higher)	ASIX-WACW
Asix.Evo 10, Operator station, 1024 variables limit	ASIX-WAAW
Asix.Evo 10, Operator station, 4096 variables limit (increase in the number of variables possible for the license of the Asix version: 5 and higher)	ASIX-WAFW
Asix.Evo 10, Operator station, 8192 variables limit (increase in the number of variables possible for the license of the Asix.Evo version: 9 and higher)	ASIX-WAGW
Asix.Evo 10, Operator station, "unlimited", limit: 2^{32} variables	ASIX-WAUW
Asix Operator Servers	
Asix.Evo 10, Operator server, 64 variables limit	ASIX-WAES
Asix.Evo 10, Operator server, 128 variables limit	ASIX-WALS
Asix.Evo 10, Operator server, 256 variables limit	ASIX-WABS
Asix.Evo 10, Operator server, 512 variables limit (increase in the number of variables possible for the license of the Asix version: 4 and higher)	ASIX-WACS
Asix.Evo 10, Operator server, 1024 variables limit	ASIX-WAAS
Asix.Evo 10, Operator server, 4096 variables limit (increase in the number of variables possible for the license of the Asix version: 5 and higher)	ASIX-WAFS
Asix.Evo 10, Operator server, 8192 variables limit (increase in the number of variables possible for the license of the Asix.Evo version: 9 and higher)	ASIX-WAGS
Asix.Evo 10, Operator server, "unlimited", limit: 2^{32} variables	ASIX-WAUS

Asix Energy – monitoring of energy media consumption (Unified Solution)	
Name	**Type**
Asix Energy v.2.0; LICENSE for N devices (max. N x 20 variables) (Operator server with no control + Asix Energy Counters.N + server www (1CAL) + server SQL(1CAL) + 1SQLCAL)	ASIX-ENERGY.N-US
EXTENSION-LICENSE Asix Energy Counters v.2.0 for N devices	AsCounters.N LIC EXT

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/)

Microsoft ISVR Embedded Licenses for Unified Solution (US) ONLY

Name	Type
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft®SQLServerStandardEditionRUNTIME 2014 AllLng Embedded MVL 1License 1Client	E65-00255
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft®SQLCALRuntime 2014 AllLng Embedded MVL 1License	C30-00387
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft®SQLServerStandardEditionRUNTIME 2016 AllLng Embedded MVL 1License 1Client	E65-00261
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft®SQLCALRuntime 2016 AllLng Embedded MVL 1License	C30-00393
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft®SQLServerStandardEditionRUNTIME 2017 AllLng Embedded MVL 1License 1Client	E65-00271
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft®SQLCALRuntime 2017 AllLng Embedded MVL 1License	C30-00402
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft® Win Rmt Dsktp Svcs CAL 2019 All Lng Embedded Microsoft Volume License 1 License	6VC-03785
ASIX-US component LICENSE EXTENSION W__W/W__S Microsoft® Win Rmt Dsktp Svcs CAL 2019 All Lng Embedded Microsoft Volume License 5 Licenses	6VC-03787

Terminals

Asix.Evo 10, Operator Terminal	ASIX-WAUO
Asix.Evo 10, RDS Terminal with WAUO authorities for the 1st concurrent Client - standalone or an addition to operator server	AsixRDS1stCAL
Next RDS Client LICENSE EXTENSION (purchase of additional client licenses possible for licenses of the Asix version: 6 and higher)	AsixRDSCAL

AsixConnect Server

OPC/DDE/OLE/.NET Server	AsixConnect
The addition that allows to use OPC UA server	**OpcUaServer**

EXTENDING LICENSES

The Asix.Evo functionality can be extended by purchase of additional EXTENDING Licenses (extension) to BASIC package:

- **Asix4www+CAL**
- **AsAudit**
- **AsLogger**
- **AsixMobile+CAL**

Asix4www:

License for additional module allowing use of Asix.Evo WWW applications on a single IIS web server. It is offered only as extension to Operator Server License. Asix4www includes the following modules:

- **EvoNet**   System for execution of Asix.Evo application in web browser; in the EvoNet mode, www browser stations are functionally equivalent to Operator Terminal License in servicing process being controlled;
- **AsPortal**   Web-based Process Information Portal is ready for immediate use and lets you browse process data from any Asix.Evo system application on the Internet. The portal allows you to browse the variables database, read current values, view the active alarms and alarm history, present historical values of process variables in tables or charts. AsPortal is an HTML website compatible with all web browsers and all operating systems;
- **AsTrend**   Web-based version of the application for graphical analysis of historical data with features consistent with the Windows version of Asix.Evo.

In order to use the Asix4www License you need to use Internet Explorer web browser in version 8.0 or upper. Acceptable are also Chrome, Opera and Firefox with IE Tab add-in installed. In addition to the basic License Asix4www you need to purchase the appropriate number of client Licenses Asix4wwwCAL. The client Licenses (**CAL**) are **concurrent-user type**, so a single License allows any one user to access the web server at any given time. There are two types of CAL Licenses:

- Asix4wwwCAL-Lite - extension of the Portal/Web Server License by 1 Lite client (per server).
  The Lite Licenses are dedicated for viewing the controlled process status. They provide full visualization functionality, access to current and historical data, as well as alarms. They do not feature functions allowing operators to control the process
  The CAL-Lite client License is sufficient for most applications that require access to data from the web browser.
- Asix4wwwCAL-- extension of the Portal/Web Server License by 1 full client (per server). In addition to all the features of the Lite version the full License also allows the operator to perform typical operations. It is possible to control the process remotely, edit AsBase recipes and archives, and configure the schedules. The full web-based client features all the necessary functions to support the application-controlled process in a manner equivalent to the WAUO Operator Terminal License.

The Asix4www base License includes a single full client.

You can purchase CAL-Lite and CAL in packages of 5, 10, 20, 50 with attractive discounts.

AsAudit:

License for an additional module which ensures additional functions related to the control of the application execution and activity registration:

- Logging control operations performed on selected process variables. AsAudit registers the following data: time of control execution, name of machine performing the control, ID of the logged-in user, value of process variable before the control operation and the control value.
- Logging the operator's actions. It is possible to register which masks (screens), tables of variables, trends were opened and closed by operator on the selected Asix.Evo system stations.
- Application file integrity control. This functionality consists in verification whether the contents of the variables database and the application files have been changed in an unauthorized way (i.e. whether user-made modifications were not confirmed through registration in AsAudit database). Each event of files modification is logged in the database.

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Functionality of AsAudit module in the field of application integrity control and registration of system operation history enables to realize **system validation in accordance with FDA 21 CFR 11 / GAMP5** regulations, applied in pharmaceutical and food processing industry.

To use AsAudit module, the additional *AsAudit* or *AsAudit – Lite* License need to be bought for the mentioned above Asix.Evo system Licenses. Type of required AsAudit License depends on the basic Asix.Evo system License used as follows:

> WDUW local engineering station –   no additional AsAudit License is needed
> WDUN network engineering station –   *AsAudit – Lite* License is needed
> WATW, WAEW, WALW, WABW operator station –   *AsAudit – Lite* License is needed
> WACW, WAAW, WAFW, WAGW, WAUW operator station –   *AsAudit* License is needed
> Operator server –   *AsAudit* License is needed
> Terminal –   *AsAudit – Lite* License is needed

Using AsAudit functionality with the License Asix4www or RDS terminal needs one of the following Licenses to be bought, regardless of the number of Licenses Asix4wwwCAL or AsixRDSCAL:

- AsAudit-WWW - addition for Asix4www Licenses;
- AsAudit-RDS - addition for AsixRDS Licenses.

AsLogger:

License of recorder of fast measurement series, used for recording, archiving and analysing of measurement series in which samples are stamped with the time stamp up to 1 μs. Measurements can be performed by analog-to-digital cards directly controlled by the Asix.Evo application or by automatic measurement / registration devices connected to a PC (including PLCs and electrical protection devices). AsLogger supports analysis of measurement experiments collecting the data series of high resolution. The series data is retrieved from a recording device, pre-processed and stored in an SQL database.

The Asix.Evo platform includes tools that allow displaying the AsLogger module measuring series in the form of graphs or tables.

Data analysis can be made on the computer on which data is recorded as well as on network stations. It is also possible to access the AsLogger data from any other programs equipped with ODBC or OLE DB/ADO interfaces.

AsLogger supports retrieving of data from the OPC server, which allows to work with any device meeting requirements of open standards for data exchange. Moreover, AsLogger supports hardware recorders: MUPASZ 2001G, MUPASZ 07, MUPASZ710 and MultiMuz family units.

One of the uses of the AsLogger program is to analyse electrical protection actions - the fast-changing time series (current, voltage, power) and digital signals gathered at the time of protection operation. The internal memory of electrical protections is usually small and allows to store at most a few - and most often only one - the last registration. Analysis of time series requires connection with a computer equipped with appropriate software tools and readout of data series from the device memory. If the protection has acted once more before reading the series, they are irretrievably lost. When using protection systems from different manufacturers, it is necessary to have and learn several different utility programs (mostly with no Polish language support). AsLogger allows to create the station both of automatic readout of the time series recorded by electrical protections and archiving in one database available on Ethernet to any number of users. In addition, hierarchical organization of data structure (switching station - field - protection type - specific device) considerably simplifies later search and analysis of data. All time series are available for analysis purpose in one - easy to use and Polish - software environment, regardless from what device they come from.

Asix Mobile – Access to Process Data from Mobile Devices:

License for a module extending with the functionality dedicated for all kinds of mobile devices of a smartphone or tablet type.

Asix Mobile enables creating a fully functional interface for visualization of selected measurements of the inspected facility, as well as control of its operation. Design and use of the graphical interface has been fully adapted for devices with small screens. Much emphasis has been put on the effective use of touch screens.

Thanks to Asix Mobile, the user gains instant access to data regardless of his location. It is possible to track current values of measurements and view their registered history. If necessary, you can influence the state of the process by sending a remote command or set points. There is also possibility to check alarm status including acknowledgment of the alarm reading.

To run Asix Mobile any Operator Server License is needed. Under this License user gets the right to connect one mobile device in the service mode of Asix Mobile. To connect additional devices, you have to purchase the appropriate number of CALs Asix MobileCAL. Each device when used leases one access license for 24 hours. If the device is not used for 24 hours, the License is automatically released.

Asix Mobile Client requires the operating system Android or iOS. It is also possible to launch the Client in the web browser running on Windows platform – the browsers supported are: Google Chrome, Mozilla Firefox and Microsoft Edge.

Asix Mobile is the winner in the "Mobile Applications" category of the "Product of the Year 2016" competition, organized by the editorial staff of the "Control Engineering Polska" magazine.

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/)

Asix4www Modules

Module Name	Type
Portal/ Server WWW for simultaneous operation of 1 client	Asix4Iwww+1CAL
Portal/ Server WWW license extension by next Client Lite (with functionality of full visualization and current, archival, alarm data reading, with NO POSSIBILITY of control) (purchase of additional client licenses possible for a license of the Asix.Evo version: 8 and higher)	Asix4www1CAL-Lite
Portal/Server WWW license extension by 5 Lite clients (purchase of additional client licenses possible for a license of the Asix.Evo version: 8 and higher)	Asix4www5CAL-Lite
Portal/Server WWW license extension by 10 Lite clients (purchase of additional client licenses possible for a license of the Asix.Evo version: 8 and higher)	Asix4www10CAL-Lite
Portal/Server WWW license extension by 20 Lite clients (purchase of additional client licenses possible for a license of the Asix.Evo version: 8 and higher)	Asix4www20CAL-Lite
Portal/Server WWW license extension by 50 Lite clients (purchase of additional client licenses possible for a license of the Asix.Evo version: 8 and higher)	Asix4www50CAL-Lite
Portal/Server WWW license extension by 1 web client of full functionality (WAUO functionality) (purchase of additional client licenses possible for a license of the Asix version: 4 and higher)	Asix4www1CAL
Portal/Server WWW license extension by 5 clients (purchase of additional client licenses possible for a license of the Asix version: 4 and higher)	Asix4www5CAL
Portal/Server WWW license extension by 10 clients (purchase of additional client licenses possible for a license of the Asix version: 4 and higher)	Asix4www10CAL
Portal/Server WWW license extension by 20 clients (purchase of additional client licenses possible for a license of the Asix version: 4 and higher)	Asix4www20CAL
Portal/Server WWW license extension by 50 clients (purchase of additional client licenses possible for a license of the Asix version: 4 and higher)	Asix4www50CAL

AsAudit Modules

AsAudit, license for operator servers and WACW, WAAW, WAFW, WAUW operator stations	AsAudit
Addition for Asix4www license	AsAudit-www
Addition for AsixRDS license	AsAudit-RDS
AsAudit – Lite, license for WDUN network engineering station, WATW, WAEW, WALW, WABW operator stations and WAUO terminals	AsAudit-Lite

AsLogger

AsLogger Server + OPC DA 2.0 + Mupasz 2001G driver	AsLoggerSvr-Mupasz2001G
AsLogger Server + OPC DA 2.0 + Mupasz07 driver	AsLoggerSvr-Mupasz07
AsLogger Server + OPC DA 2.0 + MultiMuz driver	AsLoggerSvr-MultiMuz
AsLogger Server + OPC DA 2.0 + Mupasz710 driver	AsLoggerSvr-Mupasz710
AsLogger Client	AsLoggerCAL
Mupasz2001G communication driver for AsLogger	AsLogger-Mupasz2001G
Mupasz07 communication driver for AsLogger	AsLogger-Mupasz07
MultiMuz communication driver for AsLogger	AsLogger-MultiMuz
Mupasz710 communication driver for AsLogger	AsLogger-Mupasz710

Asix Mobile (purchase of additional client licenses possible for a license of the Asix.Evo version: 8 and higher)	
1 Asix Mobile Client	Asix Mobile1CAL
5 Asix Mobile Clients Pack	Asix Mobile5CAL
10 Asix Mobile Clients Pack	Asix Mobile10CAL
20 Asix Mobile Clients Pack	Asix Mobile20CAL
50 Asix Mobile Clients Pack	Asix Mobile50CAL

AUTONOMOUS LICENSES

Asix.Evo platform also consists of a number of autonomous modules/services, the use of which may require, but doesn't have to, to buy extra AUTONOMOUS licenses as EXTENSION.

- **AsRaport**
- **AsAlert**
- **AsAlarm**
- **AsService**
- **AsixCAL**
- **AsixExcel**

AsRaport:

Autonomous service without purchasing a separate License. Reporting system integrated with Microsoft Reporting Services. For the user this means an option of freely designing, modifying, browsing and generating reports in Asix.Evo environment.

Microsoft® SQL Server™ Reporting Services provides a complete, server-based platform designed to support a wide variety of reporting needs enabling organizations to deliver relevant information where needed across the entire enterprise. By using Reporting Services, which is a component of SQL Server 2008, one can create reports based on different data sources (including ad hoc reporting available through user-friendly interface), manage reporting environment involving planning how and when reports are generated, manage report subscriptions and control access rights, as well as provide users with reports in the appropriate formats (e.g., XLS, PDF, DOC, TIFF) in a convenient way (e.g. electronically by subscription, or by embedding reports in the business applications and portals).

As a part of Asix.Evo integration with Reporting Services, the proprietary method for retrieving logged data from an ultra-efficient Asix.Evo archive through SQL queries is of key importance. A correct query to retrieve data from the Asix.Evo archive is constructed with a user-friendly application supporting drag-and-drop functionality, which does not require the user to have any IT experience. In addition, modules facilitating viewing and publishing of reports were developed in Asix.Evo.

The Asix.Evo system is compatible with both Reporting Services offered by free MS SQL Server Express and the services made available in full MS SQL Server.

AsAlert:

License of alert server used for remote notification of selected persons about important events and alarms. The messages can reach the addressees by means of e-mails or SMS messages sent through a GSM network or using OAP protocol dedicated for Ascom notification devices. AsAlert Server License allows sending alarms from Asix.Evo application that operates on the same station. To enable sending of alarms by AsAlert server from a remote station, the AsAlert Client License should be additionally installed on the remote station.

AsAlarm:

License for a module providing tools for detailed analysis of alarms generated by the monitored site and of other data relating to alarm system operation. The application meets the EEMUA (The Engineering Equipment and Materials Users Association) guidelines No. 191. The module allows two-level alarm analysis:

- assessment of the alarm system structure validity for a specific application;
  The application offers specific measures to the system designer, by which it is possible to assess if the system has been designed according to the universal guidelines and takes into account the operator's perception capacity
- In depth statistical and dynamic analysis of alarms registered on site;
  In this scope AsAlarm is an essential tool for maintenance and repair services, both in the aspect of event timeline analysis and statistical analysis to determine trends in system behaviour.

The standard functionality of the AsAlarm module entitles you to analyze systems with a number of alarms limited to 128 (no limit on the analysis time horizon), or restriction of the horizon of analysis to 2 weeks prior to the current date (with no limit on the number of alarms).

AsAlarm-Pro License – has no limit on the number of alarms and the period of analysis - it is offered as a separate item on the price list.

Free MS SQL Server Express (with 10 GB database size limit) or the full MS SQL Server version (no database size limitations) must be installed in order for AsAlarm-Pro to work.

AsService:

License for a module dedicated to plant asset maintenance and production resources management. This tool - easy in setup and use - can log the equipment operation times and number of times the devices are switched on-off - all with the use of software counters and based on data collected in Asix.Evo application. This makes possible to monitor maintenance and repair operations, to alert user on necessary actions, to report any missed operations as well as to log the related technical and record data for each monitored device. The AsService module operates using database of equipment and machines being under control. There are two types of installations of AsService:
- server one, which controls License requirements,
- client one, providing interface to the AsService program (with no limit on number of client installations within an AsService License).

The ability to configure interface between AsService and an application developed in Asix.Evo allows for access to status and configuration data of counters, configuration data of devices and last reset data of any counter - all of these directly from the application diagram.

AsService is available in two Licenses:
- *AsService - Lite* - up to 30 counters,
- *AsService* - with no limit on number of counters.

AsService requires the full version of Microsoft SQL Server database server (from the version: MS SQL Server 2008 R2). The 'Express' version is not sufficient for proper operation of the program.

AsixCAL:

License for **independent** access to the Asix.Evo system data. When using the user's own mechanisms for access to current and archive data of Asix.Evo application from a remote computer, that is not equipped with the of Asix.Evo system Licenses for network data access, a separate access License AsixCAL is required to be purchased for each computer.

AsixExcel Add-In:

Autonomous service without purchasing a separate License. It allows a typical MS Excel user to use current and historical process data of Asix.Evo application, in a simple manner. Add-in is installed automatically during the installation of Asix.Evo package. MS Excel interface is then extended with tools supporting use of Asix.Evo data: set of specialized functions and Asix Table object. The add-in also facilitates access to Asix.Evo system data using VBA scripts based on a specially prepared for this purpose object of AsixEvo class.

Two models of AsixExcel licensing are offered. The choice of the model depends on the user and can be changed at any time. The first model uses the **License OPC/DDE/OLE/.Net Server (AsixConnect)** as a part of Operator Stations, Operator Servers and Terminals Licenses or is purchased separately. The second model uses the **Asix4www License in Lite mode.**

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/**)**

Autonomous Modules	
Module Name	**Type**
AsAlert Server (required version at least Asix.Evo 8)	AsAlert
AsAlert Client, license for remote access to AsAlert Server (required version at least Asix.Evo 8)	AsAlertCAL
AsAlarm for analysis of alarm/event logs of Asix.Evo system application, no-limit license (required version at least Asix.Evo 8)	AsAlarmPro
AsService for logging operating time / number of switching on-off devices – licence for max. 30 counters (required version at least Asix.Evo 8)	AsServiceLite
AsService for logging operating time / number of switching on-off devices – no limit licence (required version at least Asix.Evo 8)	AsService
License for remote access to Asix.Evo application data (required version at least Asix.Evo 8)	AsixCAL

COMMUNICATION MODULES

Each Asix.Evo BASIC License includes a large set of communication drivers, which allow data exchange with measurement devices and most common PLC's of worldwide manufacturers. Apart from dedicated drivers for specific PLC's, Asix.Evo includes open communication interfaces matching the standards of Windows environment and allowing connection of almost any PLC or measurement device, delivered by the manufacturers with appropriate data servers. These are:

- client OPC DA 1.0, 2.0A, OPC HDA, OPC A&E, OPC UA
- OLE Automation
- OLE DB
- client DDE
- DLMS
- MODBUS RTU
- MODBUS TCP/IP
- NCP
- PROFIBUS
- PROFINET
- CANBUS
- CANopen
- DNP3
- IEC61850
- IEC62056-21
- M-Bus
- SNMP

Additionally, a special drivers: BUFOR and File2Asix (including full protocol specification) are delivered, which make available an universal interface for data exchange with Customer's drivers. It is also possible to import data into Asix.Evo application using the Application Scripts.

All available drivers, except **OPC UA**, are included in each Asix.Evo package License at no additional fee. **Using some drivers may require additional hardware or software libraries** from the third parties (see PRICE LIST).

ASKOM offers (against payment) a development of special communication drivers for any device of the Customer, when data transfer protocol specification is delivered and, for non-typical solutions, also a testing device.

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/**)**

Communication Drivers - payable	
Module Name	**Type**
License allowing use of communication driver of OPC UA protocol client	**OpcUaClient**
IEC61850 Info-Tech library needed by the IEC61850 driver of Asix.Evo	IEC61850
Implementation of any communication protocol, not included on the list of available communication drives	

COMMUNICATION DRIVERS INCLUDED IN THE PRICE

Driver	Protocol	Use
ADAM	**ADAM 4000**	RS485 serial bus protocol for ADAM 4000 series modules.
AdvWise	**HTTP/REST**	Used to exchange data between the Asix.Evo system and the WISE series modules manufactured by Advantech. The communication is carried out using an Ethernet link using the HTTP / REST protocol.
Aggregate	**-**	Driver allows definition of variables the values of which are generated as a result of calculations performed on other variables of the Asix.Evo system.
AirPointer	**HTTP**	The AirPointer is used for data exchange between Asix.Evo and air monitoring station AirPointer developed by Recordum Messtechnik GmbH, Austria. The transmission is performed with use of HTTP protocol using *info.php* and *download.php* websites of monitoring station web server.
AK	**AK**	Protocol for data exchange between Asix.Evo system and Emerson MLT2 analyzers.
AM_SA85	**MODBUS PLUS**	MODBUS PLUS network protocol, based on Schneider Electric AM-SA85-000 card.
AREVA	**AREVA**	Protocol for digital protection devices MiCOM of AREVA; the list of serviced devices includes MiCOM P127 and MiCOM P34x series.
AS511	**AS511**	Protocol using programming device interface of SIMATIC S5 PLC.
AS512	**AS512**	Protocol of CP524/525/544 communication processors.
AS512S7	**AS512**	AS512 protocol for SIMATIC S7 PLC's, based on CP340 processor.
BACnetIP	**BACnet/IP**	Protocol for data exchange with devices with BACnet/ IP protocol interface. The driver does not support all BACnet standard objects (details in driver user's documentation).
Baski	**BASKI**	Protocol for data exchange between Asix.Evo system and BASKI system.
BAZA	**-**	Communication protocol which allows to import database into Asix.Evo system. Access to database is realized based on ADO technology.
BUFOR	**BUFOR**	Communication protocol using memory buffer; data exchange with driver developed by user.
Calec	**CALEC MCP**	Communication with CALEC MCP devices by Aquametro.
CAN_AC_PCI	**CANBUS**	Protocol of CAN network based on CAN_AC1_PCI and CAN_AC2_PCI cards of Softing GmbH.
CAN_OPEN	**CANBUS**	CANBUS network protocol based on PCI_712 NT card by SELECTRON LYSS AG.
Cip	**CIP**	Used to exchange data between the Asix.Evo system and the Danfoss VLT MCA 121 EtherNet / IP modules using the CIP protocol in the Unconnected Messages (UCMM) mode.
CipAB	**EtherNet/IP**	Data exchange between Asix.Evo and PLCs of Logix5000 by Allen-Bradley.
CipOmron	**EtherNet/IP**	Used to exchange data between the Asix.Evo system and Omron NJ / NX series drivers using the EtherNet / IP protocol in Explicit Messaging mode.
COMLI	**COMLI**	COMmunication LInk protocol allowing communication with AC800C, AC800M and AC250 PLCs from ABB as well as SattCon PLC. Data exchange takes place over RS-232 or RS-485 serial link.
CPIII	**CPIII**	Communication protocol for CP-III/E control panels used to control compressors manufactured by MYCOM (MAYEKAWA).
CZAZ	**CZAZ**	Protocol for digital protection devices CZAZ-U and CZAZ-UM of ZEG-Energetyka.
DataPAF	**DataPAF**	Communication protocol for energy meters DataPAF.
DDE	**DDE KLIENT**	DDE protocol of WINDOWS XP (and later) system, communication with any PLC using its DDE server.
Diris	**Ethernet in Open Modbus TcpIp mode**	Used to exchange data between the Asix.Evo system and Diris Digiware modules using the Diris D-50 gateway. Data exchange takes place via the Ethernet link in the Open Modbus TcpIp mode.
Diva	**DIVA**	Protocol for control of industrial DIVA cameras manufactured by VDG Security B.V.
Dlms	**DLMS**	Protocol to exchange data with electricity meters from ZxD/ZxG/ZxQ family by Landys &Gyr.
DlmsTcpip	**DLMS**	Used for data echange between the Asix.Evo system and electric energy counters of Landys & Gyr company, using the DLMS protocol. The communication is performed through Ethernet.
DMS285	**DMS285**	Serial bus protocol for DURAG D-MS 285 pollution emission analyzers.

DMS500	DMS500	Serial bus protocol for DURAG D-MS 500 pollution emission analyzers.
DNP3	DNP3	Driver of Distributed Network Protocol Version 3 for Electrical Power Engineering Control and Supervision Systems.
DP	**PROFIBUS DP**	PROFIBUS DP network protocol, based on PROFIboard card by Softing GmbH.
DP5412	**PROFIBUS DP**	PROFIBUS DP network protocol, based on CP5412 (A2) or CP5613.
DSC	DSC	DSC PLC protocol (analysers for chlorine ion content in water).
DXF351	DXF351	Communication protocol for Compart DXF351 devices by Endress+Hauser.
E2TangoTcpip	**Manufacturer's protocol**	Communication protocol of e2TANGO device by Elektrometal Energetyka.
Ecl	**Modbus TCP**	Protocol for Communication with ECL Comfort 210/310 controllers made By Danfoss.
EcoMUZ	EcoMUZ	Protocol used for data exchange between Asix.Evo and Microprocessor Protecting ecoMUZ devices made by JM Tronik.
ecoMuz2	EcoMUZ	Protool used for data exchange between Asix.Evo and Microprocessor Protecting ecoMUZ-2 devices made by JM Tronik.
EQABP	PN-EN-62056-21	Protocol used to exchange data with EQABP electricity meters of Pozyton through RS-485 interface.
EQM	PN-EN-62056-21	Protocol used to exchange data with EQM electricity meters of Pozyton through RS-485 interface.
Esser	Esser	Protocol fo data exchange with Esser 8008 fire protection by Honeywell.
FESTO	**FESTO Command Interpreter**	Serial bus protocol for FESTO PLC's, using diagnostic interface.
FILE2ASIX	FILE2ASIX	Communication protocol used for importing data from the text files of the specified structure into Asix.Evo system.
FP1001	FP1001	Serial bus protocol for heat and steam flow meters by METRONIC Kraków.
Gci	**Manufacturer's protocol**	Used to exchange data between the Asix.Evo system and the E94AYCEN communication module from Lenze Drive Systems GmbH. Data exchange takes place via an Ethernet link using the manufacturer protocol called GCI.
GFCAN	CANBUS	CANBUS network protocol based on CanCard by Garz&Fricke Industrieautomation GmbH.
Global	-	Driver used to exchange data between Asix.Evo application and so-called exchange file, which is a container for the current parameters of the driver variable (name, status, value, timestamp).
IEC61850	IEC61850	Power stations protocol. Requires purchase of INFO-TECH 61850 CCC library.
COMPOWAY/F	K3N	Meters protocol of K3N series by OMRON.
K-Bus	K-Bus	Communication protocol implemented within DECAMATIC regulators of VIESSMAN boilers.
KMP	**Kamstrup Meter Protocol (KMP)**	Used to exchange data between the Asix.Evo system and the Kamstrup Multical 801 meters according to the Kamstrup Meter Protocol (KMP). Data exchange takes place via RS-232. A cable manufactured by Kamstrup symbol 66-99-106 is required for connection to the meter.
Lb480	**Manufacturer's protocol**	Used to read the current and historical data from the concentrator LB-480 manufactured by LAB_EL Elektronika Laboratoryjna.
LG	**LG proprietary protocol**	Serial communication via dedicated protocol with Master-K and Glofa GM PLCs.
Logo	LOGO	Used to exchange data between Asix.Evo system and Logo OBA5 controller from SIEMENS with use of programmer interface of the controller.
LUMBUS	LUMBUS	Communication protocol for meters manufactured by LUMEL.
Lzqm	PN-EN-62056-21	Protocol for exchange of data with LZQM electricity meters, produced by POZYTON Electronic Measuring Instruments Facility in Częstochowa.
M200	M200	Communication protocol for data exchange between Asix.Evo and M210G Spirax Sarco stations.
MACMAT	GAZ_MODEM	Serial bus protocol for gas flow correctors MACMAT and COMMON.
Max1000	MAX-1000	Protocol to exchange data with MAX 1000 camera managing system of ULTRAK.
M-BUS	**M-BUS**	Serial bus protocol according to EN 1434-3, frequently implemented within heat meters (eq. MULTICAL by KAMSTRUP). Data exchange over RS-232 serial links, (attention: third-party master station of M-Bus network required).
MEC	MEC	Proprietary protocol allowing communication with heat meters MEC07 and MEC08 manufactured by ITC Łódź.
MegaMuz	Modbus	Protocol for communication with microprocessor security devices of MegaMuz type by JM-Tronik.
MegaMuz2	**Modbus**	Used to exchange data between the Asix.Evo system and microprocessor protection devices of MegaMuz2 type developed by JM-Tronik, Warsaw. Communication is carried out in MODBUS RTU mode via serial link.

MegaMuz_TCPIP	Modbus TCP	Protocol for communication by Ethernet with microprocessor security devices of MegaMuz type by JM-Tronik.
MegaMuz2_TCPIP	Modbus TCP	Used to exchange data between the Asix.Evo system and microprocessor protection devices of MegaMuz2 type developed by JM-Tronik, Warsaw. Communication is carried out in MODBUS RTU mode on TCPIP via Ethernet.
MELSECA	A1SJ71C24-R2	Protocol of series link for MELSEC-A and FX2n PLCs, format 1 dedicated.
MelsecTcpip	Melsec	Used to exchange data between the Asix.Evo system and Mitsubishi controllers according to the Melsec Communication Protocol. Data exchange takes place via an Ethernet connection.
MEVAS	MEVAS	Serial bus protocol for MEVAS pollution emission analyzers.
MicroSmart	MicroSmart	Used for exchanging data with MicroSmart controllers of IDEC.
MODBUS	MODBUS RTU	Modbus RTU protocol for communication with devices for measurement and registration of electrical values in 1-, 2- and 3-phase nets of low and high voltage – DIRIS A10, A20, A40/A41 of SOCOMEC.
MODBUS_TCP/IP	MODBUS TCP	MODBUS network protocol based on TCP/IP, according to OPEN MODBUS/TCP specification by Schneider Electric.
MODBUS_TCPIP_Slave	MODBUS TCP	For data exchange between the Asix.Evo system and other computers/devices with use of the MODBUS protocol realized via an Ethernet network with the TCP/IP protocol.
MODBUSSLV	MODBUS SLAVE	MODBUS protocol, Asix.Evo in SLAVE mode.
MPI	MPI (converter)	Protocol of MPI network for SIMATIC S7 PLC's, based on PC/MPI converter.
MPS	MPS	Serial bus protocol for MPS power network parameter meters MPS by OBR Metrologii Elektrycznej in Zielona Góra.
Mqtt	MQTT	Used to exchange data between the Asix.Evo system and the MQTT protocol brokers. Version 3.1.1 of the MQTT protocol is supported.
MSP1X	MSP1X	Serial bus protocol for MSP-1x PLC's by ELMONTEX.
Mt723	MQTT	Used to collect data sent to Asix.Evo from MT-723 recorders manufactured by Inventia. Data exchange takes place via Ethernet using the MtLib5 library developed by Inventia.
Muel	MUEL	Protocol to exchange data between Asix.Evo and a MUEL system maintenance computer.
MultiMuz	Modbus	RS232/485 serial link protocol for microprocessor devices of MultiMUZ type (manufactured by JM-Tronik)
MultiMuz_TCPIP	MODBUS TCP	Protocol for data exchange with microprocessor devices of MultiMUZ type (manufactured by JM-Tronik) over Ethernet by means of TCP or UDP.
MultiMuz3	Modbus	RS232/485 serial link protocol of microprocessor security devices MultiMUZ3 type, produced by JM-Tronik.
MultiMuz3_tcpip	MODBUS TCP	Protocol for data exchange with microprocessor devices of MultiMUZ3 type (manufactured by JM-Tronik). Communication realized in MODBUS RTU mode on TCPIP with the use of Ethernet and 10502 port.
MUPASZ	Modbus	Serial bus protocol for universal microprocessor MUPASZ PLC for power industry protection devices - Institute of Telecommunication and Radio Engineering in Warsaw.
Mupasz710_RS	Modbus	Protocol for data exchange with microprocessor devices of MUPASZ 710 type made by Institute of Telecommunication and Radio Engineering in Warsaw.
MupaszRtu	Modbus	Protocol for data exchange between Asix.Evo and Mupasz2001G, Mupasz07, Mupasz Compact G01 devices, produced by ITR Warszawa. Communication is performed via serial links in RS485 standard.
MupaszRtu_TCPIP	MODBUS TCP	Protocol for data exchange with microprocessor protecting devices of MUPASZ 710 type, made by Institute of Telecommunication and Radio Engineering in Warsaw. The communication is performed in MODBUS RTU mode via Ethernet link, using port no. 502.
Mus04	MUS	Protocol to exchange data with microprocessor-based control devices MUS-04 manufactured by ELEKTROMETAL S.A. from Cieszyn.
MUZ	MUZ	Protocol of MUZ microprocessor PLC for power industry protection devices.

NCP	MN_Invensys	Protocol to exchange data with MN-series controllers from Invensys (former Satchwell).
NetLink	PROFIBUS / MPI	S7 protocol of PROFIBUS network using NetLink Lite module of SYSTEME HELMHOLZ.
NetLinkPro	PROFIBUS / MPI	Protocol for exchanging data with S7 PLCs with use of NETLink PRO (gateway Ethernet <-> MPI/Profibus) manufactured by SYSTEME HELMHOLZ.
None	-	The None protocol doesn't realize a physical connection with the controller. It may be used for: • application testing in simulation mode, • data exchange between Asix.Evo applications by means of process variables.
NordicRF	NordicID protocol	Protocol to exchange data with Nordic ID RF 601 bar code reader of NordicID.
OMRON	HOSTLINK	Serial bus protocol for SYSMAC series PLCs.
OmronTcpip	FINS	Protocol for data exchange with Omron controllers supporting the FINS/UDP and FINS/TCP protocols.
OPC	OPC KLIENT	OPC (OLE for Process Control) protocol, communication with any PLC using its OPC server, according to OPC 2.04 specification.
OPCUA	OPC UA CLIENT	OPC UA protocol, communication with any PLC according to OPC UA specification.
OpcLogger		Used to register measurement series read from current data OPC servers.
Pa5	Pa5	Communication protocol for data exchange between Asix.Evo and PA-5 converters of POWOGAZ S.A. Poznan.
PD21	LUMBUS	Protocol for data exchange with PD21 concentrator made by LUMEL S.A.
Pmc4000	PMC-4000	Communication protocol for data exchange between Asix.Evo and POLON 4800 fire alarm control panel; data are transferred via serial interface RS-232.
PPI	PPI	Protocol of PPI interface for SIMATIC S7 series 200 PLC's, based on PC/PPI converter.
Protherm300	PROTHERM	Protocol of Protherm 300 DIFF PLC of Process-Electronic GmbH (RS-422 serial link).
PROTRONICPS	PROTRONICPS	Communication protocol for PROTRONIC PS regulators by Hartmann & Braun.
REST	HTTP/HTTPS	Used to exchange data between the Asix.Evo system application and the REST server.
S700	AK	Protocol for gas analyzers by MAIHAK.
S7Opt		Used to exchange data with the SIMATIC S7-1500 and S7-1200 series controllers (from version 4.0), constituting a completely new generation of Siemens controllers.
S7_TCPIP	S7_Ethernet	Used for data exchange with SIMATIC S7 PLC's through Ethernet connection with use of standard computer network card; the product does not require the installation of SIEMENS SIMATIC NET software on Asix.Evo system PC as well as the adaptation of PLC software for data exchange purposes.
SAPIS7	MPI (CP5611/SOFTNET)	Protocol of MPI network for SIMATIC S7 PLC's , based on CP5611/SOFTNET.
SAPIS7	PROFIBUS	S7 protocol of PROFIBUS network based on CP5412 (A2) or CP5613.
S-BUS	S-Bus	Protocol of programmer unit interface and S-Bus network for SAIA Burgess Electronics PLCs.
SbusTcpip	Ethernet S-Bus	Protocol used for data exchange between Asix.Evo system and PLCs of PCD SAIA-Burgess family by means of TCP/IP.
Simulator		Used to generate test trends. The trends generated can be based on previously created csv files, or calculated by the driver as a random trends and a sinusoidal trend.
SINECH1	SINEC H1	Protocol of Ethernet industry network for SIMATIC S5 PLC's, SEND/RECEIVE interface, based on CP1413.
SINECL2	SINEC L2	Protocol of PROFIBUS network with SEND/RECEIVE (FDL) interface for SIMATIC S5.
Si400	SINTONY SI	Communication protocol for alarm exchanges with Sintony SI 400 of SIEMENS.
SNG	SNG-Synergia/IP	Protocol for data exchange between Asix.Evo and SNG systems provided by the Warsaw based Synergia Tech company, via an Ethernet link.

SNMP	SNMPv1 i SNMPv2c	SNMPv1 and SNMPv2c protocols – management of various elements of telecommunication networks, such as routers, switches, computers, or telephone switchboards. The driver performs its functions by using the SNMP Management API.
SNPX	SNPX	Protocol for communication with GE_FANUC 90-30 PLCs as well as GE_FANUC 90 CMM and PCM modules.
Sp100H	Manufacturer's protocol	Protocol for exchanging data between Asix.Evo and SP-100H controller of storm water center Aqua Center Industrial 100 H 14-60, produced by MARLEY Polska Sp. z o.o. The transmission is performed via serial links using RS-232 std serial port.
SPA	SPA	SPA bus protocol for protection of switching stations manufactured by ABB.
Srio	ANSI X3.28	Protocol for data exchange with SRIO 500M ABB hub; communication via RS-232 interface; the transport layer based on ANSI X3.28 protocol in full-duplex mode with BCC checksum.
SRTP	SRTP	SRTP protocol allowing communication over TCP/IP with VersaMax Nano/Micro PLC's (based on IC200SET001 converter) and VersaMax or Series 90 PLC's over TCP/IP (based on IC 693 CMM321).
TALAS	TALAS	Serial bus protocol for TALAS pollution emission analyzers according to the TALAS 2.3 (007)22 specification.
TwinCAT	(with use of Beckhoff libraries)	Data exchange between Asix.Evo and PLCs of Beckhoff Industrie Elektronik: CX1000, TwinCAT PLC (PC based control system), BC9000, BX9000. Communication is based on Ethernet.
TwinCATTcpip	ADS/AMS over TCPIP (without use of Beckhoff libraries)	Data exchange between Asix.Evo and PLCs of Beckhoff Industrie Elektronik: CX1000, TwinCAT PLC (PC based control system), BC9000, BX9000. Communication is based on Ethernet with the use of ADS interface.
Vantage	Manufacturer's protocol	Readout of current data from weather stations of Vantage Pro family developed by Davis Instruments Corp., USA.
Wago	Wago	Protocol for data exchange with Wago PLCs. Communication realized with the use of Ethernet in UDP mode based on network variable list ("Network Variables").
WagoUps	Wago	Used to communicate the Asix.Evo system with WAGO 787-87x power supplies using the RS-232 or Ethernet serial link.
ZdarzenieZmienna	-	The driver is used to generate process variables of WORD types (16-bit word) on the basis of current values of alarm events in the Asix.Evo system.
ZxD400	IEC 61107	ZxD400 driver is used for data exchange between Asix.Evo and electric energy counters of ZxD400 type, manufactured by Landys & Gyr, via RS-485 interface.

ASKOM

RELIABLE SOLUTIONS OF AUTOMATION AND PRODUCTION MANAGEMENT SYSTEMS
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EXTENSION, UPDATE/UPGRADE, MIGRATION, TECHNICAL SUPPORT

The Latest Version ONLY:

ASKOM offers and sells the most recent version of the Asix.Evo package. The License allows the user to install and use previous versions of Asix/Asix.Evo if it is dictated by the technical requirements of an existing application. **ASKOM has no obligation to provide media, documentation or separate key for previous Asix versions, as well as to provide technical support for them.**

Version Subscription:

You may install and use more than one version of Asix.Evo for the purpose of designing and testing applications, but only one at a time.

Rules for Providing Technical Support

ASKOM provides limited, free and complex, paid technical support. Free support is only available for the latest (current) and one previous main version of Asix.Evo package. The support covers only the help in determining the causes of problems in the software operation and the advice on how to make/parameterize the application.
In all other cases, it is possible to obtain paid support in accordance with the valid price list or under the terms of a separate service agreement.
In no case, ASKOM does not guarantee making corrections to the other main versions of the package than the latest one.
The condition of obtaining technical support, both free and paid, is to refer to the number of the granted and registered License to use the software.

Version Update and Upgrade:

The versions of Asix.Evo are numbered by *x.y.z*, where: *x* is a major number of the version, digit *y* is a minor number of the version and *z* is a number of package release. When only the digits *y.z* are different when version changes, it's called an **update/Upd** - ASKOM ensures **free update of system version**. If the major number *x* changes for new version, it is called an **version upgrade/VUPG** and it follows against payment according to the current price list.

If you raise the version number for client Licenses Asix4wwwCAL from the lower version than 8, available in the past in packs of 5 Licences, the client License Lite is offered - but Purchaser may change once both client type and number of client Licenses.

The right to obtain a VUPG license (version upgrade) is conditioned by referring to the number of the granted and registered BASE license to use of the software.

Extension:

Asix.Evo module is extended by purchasing EXTENDING **(extension/EXT)** or AUTONOMOUS Licenses (see above).

The rule of the package latest version sale applies to the case of extension purchase - if you extend the package the version of which differs from the distributed one, you have to upgrade your package to the current version **(upgrade)**. There are **exceptions** for License changes that only consist in increase of the License parameters:
- purchase of additional client Licenses Asix4wwwCAL
- purchase of additional client Licenses AsixRDSCAL
- purchase of additional client Licenses Asix MobileCAL

The right to obtain a EXT license (extension) is conditioned by referring to the number of the granted and registered BASE license to use of the software.

Product Migration (Product Upgrade):

Licenses of Asix.Evo module products have different functionality (Operator Station, Operator Server, Engineering Station, Terminal) and the limit of supported variables. There are paid migrations involving the transition to a "higher" functionality and / or increase the number of process variables.

The rule of the package latest version sale also applies to the case of product migration - if you extend the package the version of which differs from the distributed one, you have to upgrade your package to the current version **(upgrade)** together with the change of package type **(migration/PRUPG)**. The version upgrade **is not mandatory** for the migration that **only** increases the process variables number.

The right to obtain a PRUPG license (product upgrade) is conditioned by referring to the number of the granted and registered BASE license to use of the software.

Program Maintenance (PM):

Each client, at the time of purchase of the new License or **V/PR UPG** License can join the program PM. Joining the program gives you the right to a **free upgrade of the main software version (VUPG)** if during the program membership the new main version of the software will be released (available for sale). Under the PM the following applies:

- joining the program requires a fee specified in the price list;
- duration of PM is equal to one year; sustain of participation for next year requires the re-payment of fee;
- if during the PM the user performs the **migration (PRUPG)** or **extension (EXT)** of the License, a supplementary License fee resulting from the difference in License prices before and after migration / extension should be paid in order to preserve the validity of PM.

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/**)**

EXTENSION, UPDATE/UPGRADE, MIGRATION	
Migration **Notice:** when product migration (product upgrade), the fee for mandatory version upgrade to the current package version should be added to the charge for the License type change - except the cases described in the chapter *EXTENSION, UPDATE/UPGRADE, MIGRATION.*	difference in Licenses price
Update	free of charge
Upgrade from version 4,5,6.yy.zzz to version 10.y.z	90% of specific license price
Upgrade from version 7.y.z to version 10.y.z	80% of specific license price
Upgrade from version 8.y.z to version 10.y.z	50% of specific license price
Upgrade from version 9.y.z to version 10.y.z	35% of specific license price
Product Upgrade from ASIX-ENERGY.N-US to ASIX-WA_S-US	☎
Joining the PM for 1 year	**15% of package price**
Technical support for each started hour (does not apply to cases eligible for free support)	**€ 40,-**
USB HASP key exchange	€ 70,-
Surcharge for MaxMicro USB HASP key	€ 20,-

OTHER PRODUCTS

WAGO Visu Building for BMS Systems Based on WAGO Controllers
(in Polish version)

The WAGO Visu Building package has been developed by working closely with WAGO ELWAG — the market leader in building automation. The key idea behind WAGO Visu Building is to link the WAGO controller software with the Asix.Evo visualization system into a coherent system providing comprehensive control and visualization in intelligent buildings.

On the one hand WAGO Visu Building includes a ready-to-use library of program modules dedicated to the WAGO controllers which are used to control devices and instrumentation commonly used in building automation, while on the other hand, it also comprises SCADA BMS Application Wizard.

WAGO library contains software modules to such device groups as:

- HVAC – air handling units component templates,
- Climate – air-conditioning controller templates,
- Lighting – lighting monitoring and control templates,
- Blinds – blinds component control templates,
- Scheduler – scheduling software modules,

that include but are not limited to heat exchangers, heaters, coolers, fans, dampers, pumps, filters, lights and measurements. Thanks to the built-in mechanisms of CODESYS software used for WAGO controller programming, it is possible to export application controller data to Asix.Evo. Based on this, BMS Application Wizard included in WAGO Visu Building will automatically generate the SCADA application variables database and create the application framework including the alarm system. WAGO Visu Building provides ready-to-use BMS visualization object templates associated with WAGO controller software modules (the controller software module collects data and implements the control algorithms while the associated Asix.Evo system graphic object clearly presents all the information to the operator and allows master control). Parameterization of Asix.Evo objects required of the designer could not be easier and all it takes to parameterize an object is to select an object and identify whole variables set with one click from the drop down tree. Communication with controllers is performed via WAGO driver, based on Network Variables.

WAGO Visu Building is a unique package that facilitates and reduces to a minimum the amount of work associated with the preparation of BMS applications. By automating most of the activities **the time needed to design and run BMS applications and the likelihood of errors are greatly reduced**.

WAGO Visu Building License is the only one that allows you to run an application that contains variables definition database generated from CODESYS files. WAGO Visu Building licenses are being sold by WAGO controller distributor

> WAGO ELWAG Sp. z o.o., ul. Piękna 58A, 50-506 WROCŁAW, Poland
> tel. 71 360 29 70 , fax 71 360 29 99 , e-mail: wago.elwag@wago.com

Training

Fast mastering of basic skills required to develop and run an application is possible by 4-day training at ASKOM company site. Every Participant has his personal computer for training purposes, with latest versions of Asix.Evo installed, and is learned how to develop the application from the very beginning. We make also our knowledge available about various non-typical solutions which make development works faster and easier, we share our knowledge of so-called "tricks" improving maintenance of the software and development of the applications. Part of information presented during the training is not included in any manual. Achieved knowledge and skills are tested by the users in their own original applications developed at training course.

(To get access to the prices, please call ASKOM or use the form http://www.asix.com.pl/en/price_list/**)**

Training	
4 days training *In the case of registration of 2 people - 5% discount; more than 2 people - 10% discount	
2 days training in ASIX-ENERGY *In the case of registration of 2 people - 5% discount; more than 2 people - 10% discount	

Additional Information

ADDITIONAL INFORMATION	
Trial pack (90-day License) including full electronic documentation (DVD)	free of charge
When you buy Asix.Evo package, the transport costs are covered by ASKOM. The exception is the purchase of the License WDUW and dongle change - the transport costs are paid by the customer.	

Discount Rules
Companies that buy Asix.Evo package for re-sale get 5% discount of the List Price with each purchase.
Discounts for companies being 'Integrator of Asix Platform' are calculated on the basis of total net turnover during preceding 12 months.
Discounts do not apply to purchase of local engineering station license (**ASIX-WDUW**).

ORDERS		
Order in writing shall include full company name, address and VAT identification number.		
Payments shall be made in cash or by bank transfer to following account:		
ASKOM sp. z o.o. Gliwice, POLAND Józefa Sowińskiego 13		
Bank PKO SA o/ Gliwice, SWIFT: PKOPPLPW, account number: **PL83124013431978000023375365**		
Prices specified are net value and do not include VAT tax.		
Ordering by e-mail:	asix_zamowienia@askom.pl	

CONTACTS		
Technical information, documentation and examples are available in INTERNET - www.asix.com.pl		
Favorable discounts for authorized Asix.Evo Platform Integrators		
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		Tel. +48 32 30 18 180
Training:	e-mail: asixSZ@askom.pl	
Technical information:	e-mail: support@askom.pl	Tel. +48 32 30 18 141
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