



EVOLUTION servers provide a multi-protocol SCADA/BMS system

(KNX/BACnet/MODBUS/DALI/OPC/IoT - Node-RED, MQTT...)



EVOLUTION servers provide a multi-protocol SCADA/BMS system (KNX/BACnet/MODBUS/DALI/OPC/IoT - Node-RED, MQTT...) that monitors, visualizes and controls the building's mechanical and electrical equipment, such as HVAC, lighting, blinds, technical alarms, hydraulics, security, power systems, etc.




Its visualizations stands out for being one of the most **customizable and easy to use** on the market. It is a multilingual, multi-user (with special user rights) and multi-project System.

EVOLUTION consists of:



01 EVOLUTION SERVERS

HARDWARE

		EVOLUTION BMS-1500	EVOLUTION BMS-UNLIMITED
		1.500 process points	Unlimited process points
Basic Server up to 50 telegrams per second		Web code: 27462	Web code: 10019
Suitable for small to medium sized installations or even large projects where the data rate (telegrams/second) and the rate/amount of data to be recorded in the database is not too high (writing bursts up to 50 telegrams per second)			
Advanced Server up to 100 telegrams per second		Web code: 27463	Web code: 13816
Suitable for medium-sized or even large installations where the data rate (telegrams/second) and the speed/amount of data to be recorded in the database is moderate (writing bursts up to 100 telegrams per second)			
19-inch Rack Server up to 150 telegrams per second		Web code: 27464	Web code: 13905
Suitable for all installations where high data rates (telegrams/second) and high rate/amount of data to record to the database are required (writing bursts up to 150 telegrams per second)			



DALI SERVER

Evolution DALI e64 IPAS management server



Web code: 13906


For projects with a number of DALI gateways between 10 and 30, it is recommended (due to price and system resources) to purchase this DALI server instead of using a normal Evolution server with DALI license extensions.

With the DALIControl e64 management tool, a visualization in table format is generated for the analysis and supervision of the DALI e64 gateways from lpas automatically. It connects via IP to the gateways and extracts all DALI configuration, including names and descriptions in seconds, thus saving hours/days of work.

It also allows you to create the structure of the building and link the DALI gateways, groups or ECGs to the created topology. It also reads and displays the historical records and analysis of the results of the periodic tests of the emergency lamps.

SOFTWARE • VIRTUAL MACHINES

Evolution Servers as installable "virtual machine" type software. For virtual environments or dedicated physical machines at the end client's facilities regardless of the client's host operating system (Linux, Windows, etc.)

		EVOLUTION BMS-1500	EVOLUTION BMS-UNLIMITED
		1.500 process points	Unlimited process points
Virtual Machine HW-bound		Web code: 27465	Web code: 27466

Evolution Server in virtual machine format with a license dependent on or linked to the HW where it is installed.

Virtual Machine HW-bound integrator version		-	Web code: 27553
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Same as the previous one, but with a special price to install on the integrator's PC. It allows you to develop the project before having the project Evolution Server available (only one per integrator).

Virtual Machine private cluster / cloud		-	Web code: 27531
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Evolution Server in virtual machine format with a license not dependent on the HW, that is, prepared for Cloud-based business virtualization environments. Sold with "usage-contract".

02 BUILT-IN MODULES (included in price of server)

- HTML display interface and local editor
- 5 x KNXnet/IP gateways
- 1 x IPAS DALI e64 gateway
- 5 x ModBus devices
- 1 x BACnet device
- 5 x Smart Metering counters
- 5 x Simultaneous Users (Visu/Smartvisu)
- 1 x Additional and independent Multiproject: allows you to configure an additional, independent project on the Evolution server.
- 1 x Database Manager (automated backup and export of recorded data)
- 1 x Reporting tool for individual calculation of project costs
- Templates - Design a page and reuse it repeatedly with different data points.

03 LICENSE EXTENSIONS

	Web code	Description
Additional Users License (5 x users)	10616	System expansion for 5 additional users + Smart Visu
KNXnet/IP gateway license (5 x gateways)	10693	License extension for 5 additional KNXnet/IP gateways.
Multiproject License	27467	<p>Allows you to configure an additional, independent project on the Evolution server.</p> <p>A multi-project license is enabled in the user rights module (where individual privileges can be assigned across modules). This allows each user to only see their Alarms, Weekly/Yearly Schedules, Smart Metering, Scenes, etc. individually. Thus, we can have multiple projects independent of each other.</p> <p>Practical example: a condominium with 100 houses. Instead of purchasing a visualization for each house, it can be done with this multi-project license. For this case you would need: 1 Server + 19 KNXnet/IP Licenses (5 GW) + 99 Multiproject Licenses.</p> <p>You can also purchase an additional server (at no extra cost for licenses acquired from the project) to provide redundancy.</p>
Modbus License (5 x devices)	15790	License extension for 5 additional Modbus devices.
BACnet License (5 x devices)	13770	License extension for 5 additional BACnet devices.
Smart Metering License (5 x meters)	10382	License extension for 5 consumption meters (e.g., energy, water or gas meters) in the Smart Metering module.
DALIControl e64 license (5 x gateways)	15793	License extension for 5 DALI e64 gateways for the DALIControl e64 management tool: analysis and supervision of 5 DALI e64 gateways from Ipas.

04 MAINTENANCE CONTRACT

Annual maintenance	106147	Training, Evolution Update, Operating System Update, Evolution Renewal, Annual review of the equipment status, Annual period.
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