

KNX

BACnet

MQTT

Modbus

OPC
(DA/UA)

SNMP

Fidelio/Opera | Protel | Infor
RMS Cloud | CharPMS
VingCard Web | Kaba | Salto

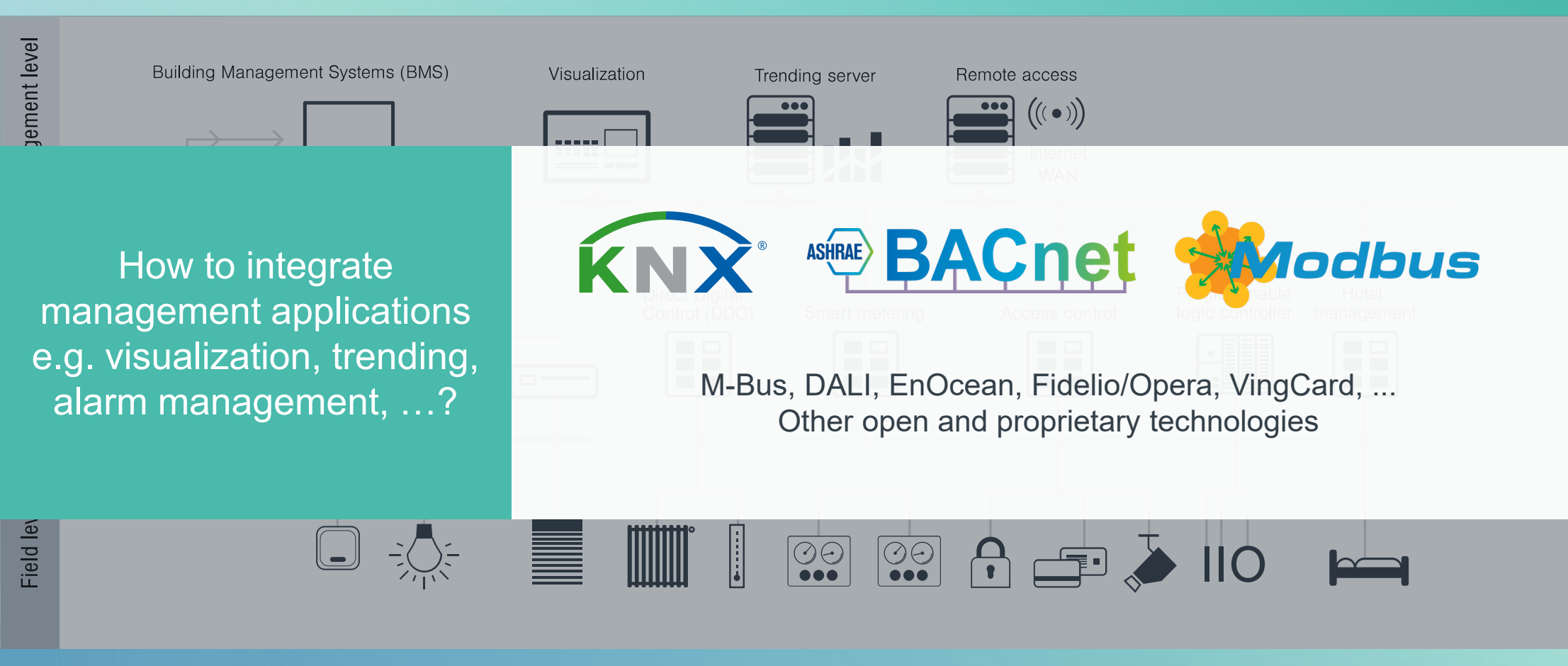
DALI EnOcean
M-Bus DMX

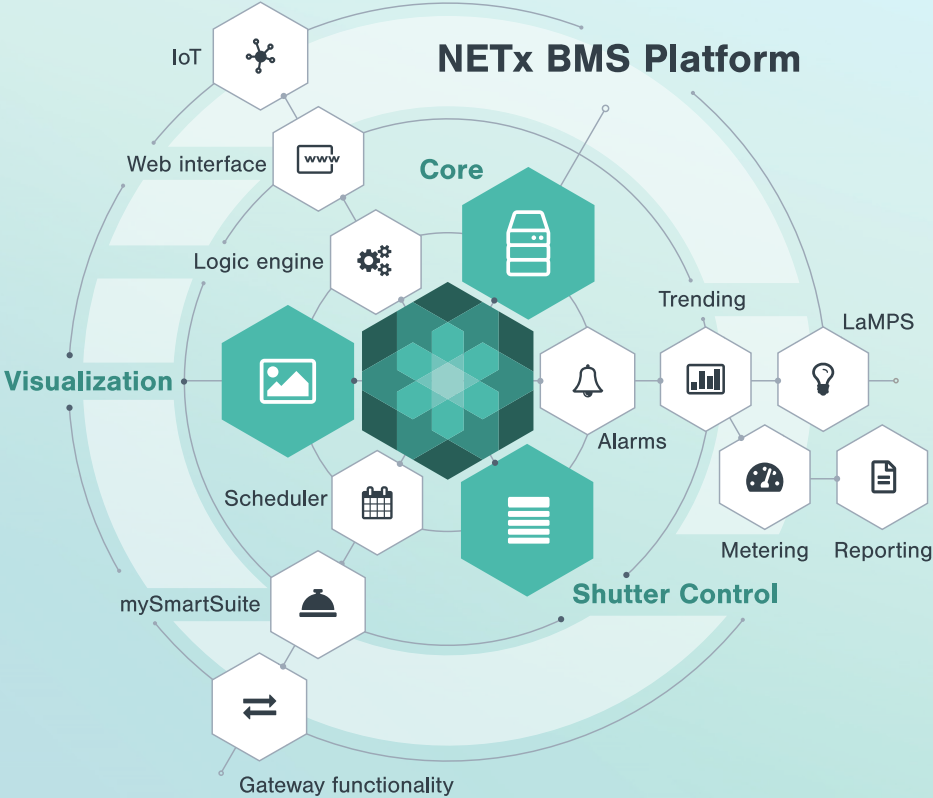
Proprietary solutions

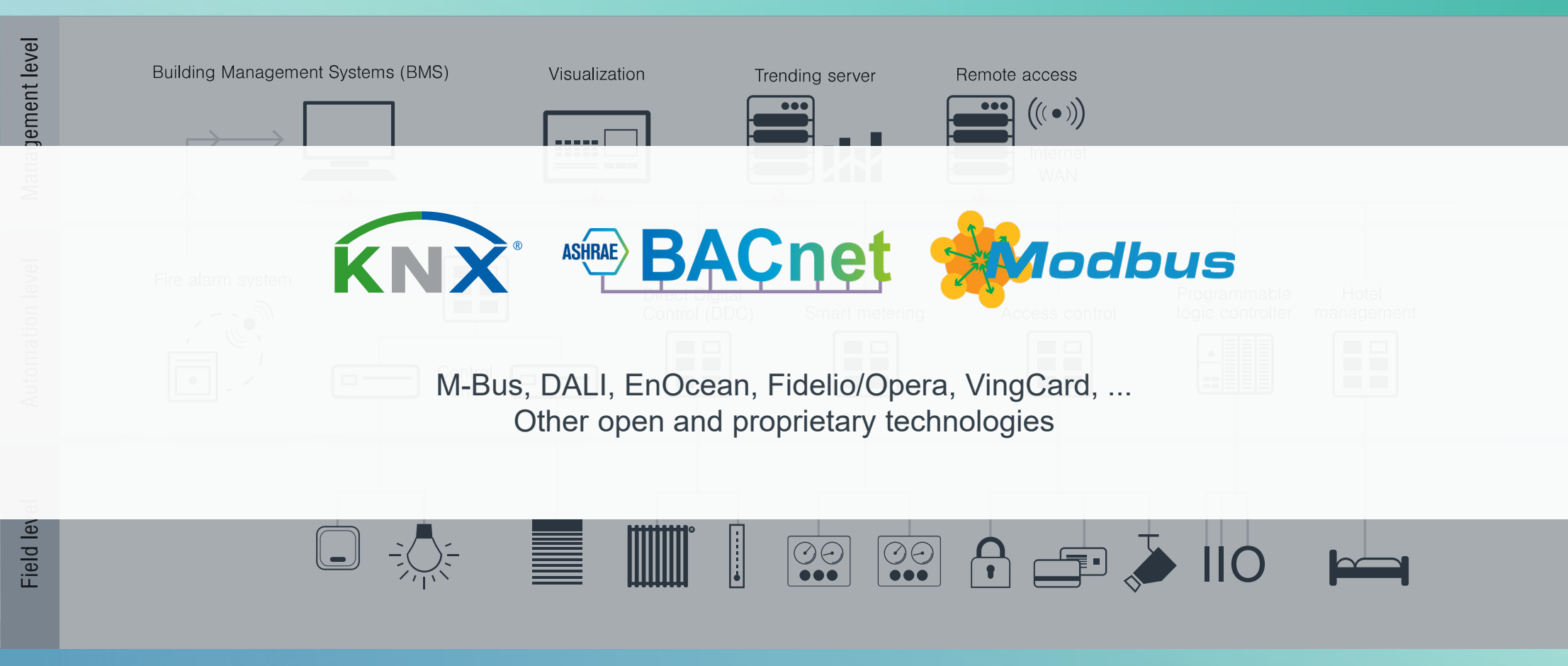
All-in-one

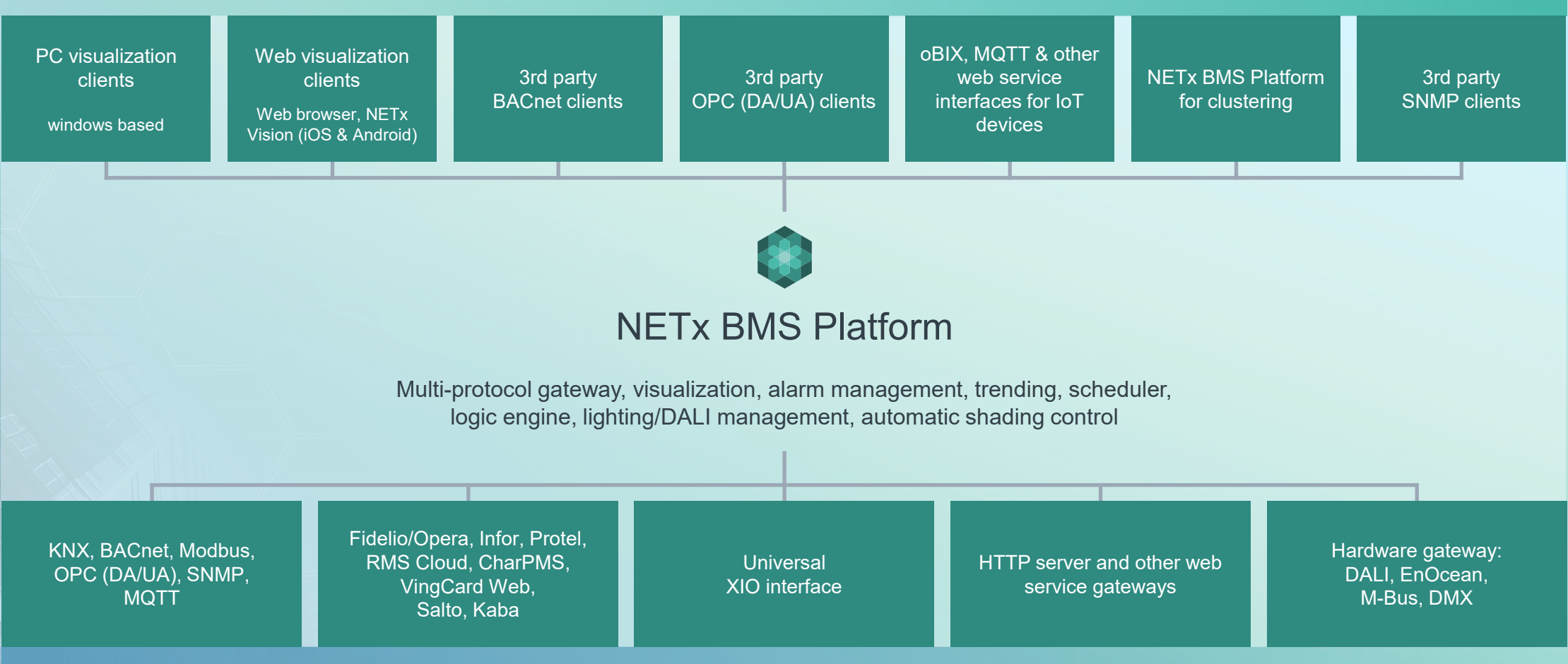
**Building management software for
medium-sized and enterprise building
automation projects**

NETx BMS Platform

























Components

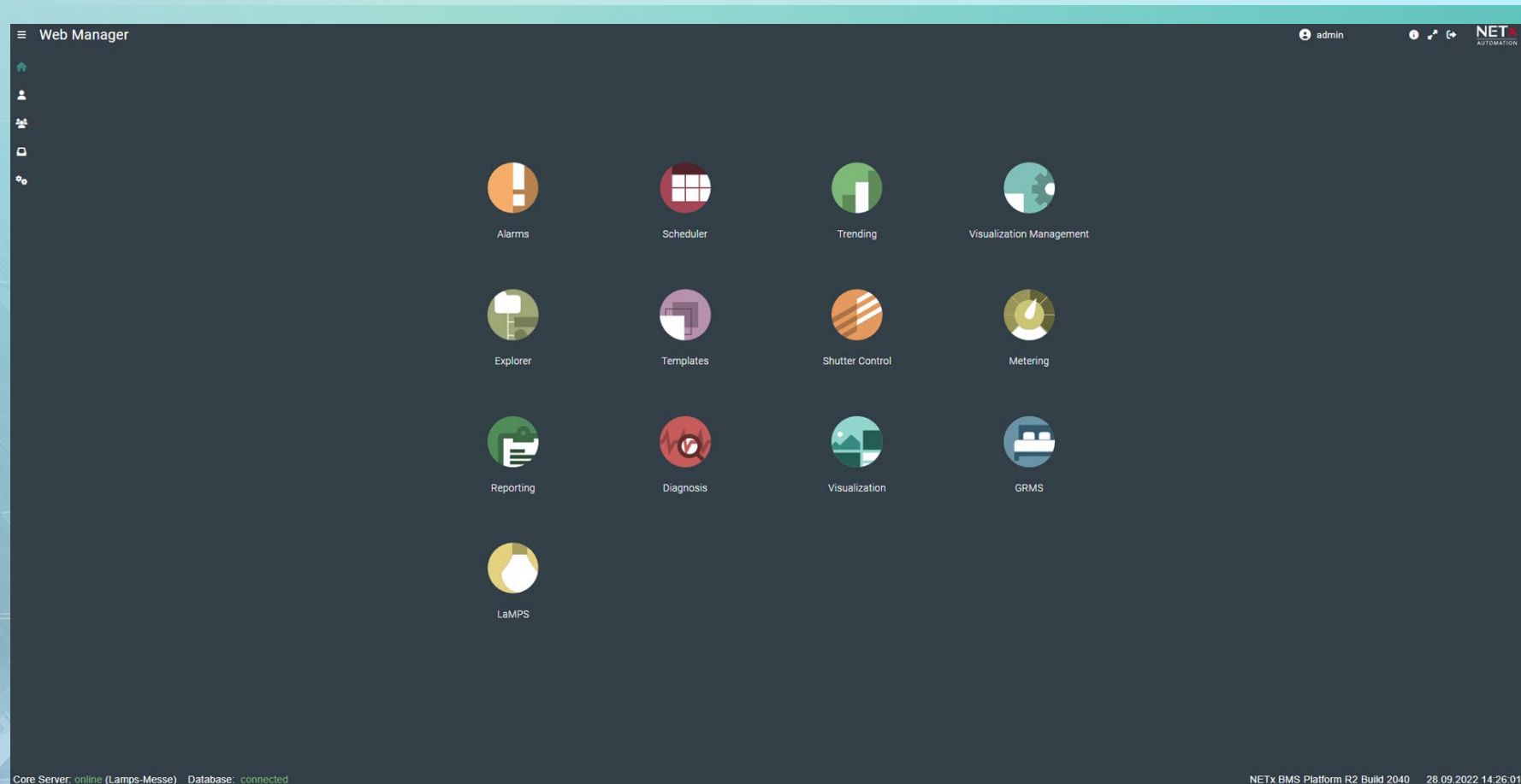
Core	Visualization	LaMPS	Shutter Control	mySmartSuite	Add-ons	
<ul style="list-style-type: none">• Gateway functionality• Alarm management• Trending• Reporting• Scheduler• Logic engine• Metering• GRMS	<ul style="list-style-type: none">• Visualization for small, medium and large projects• PC and web-based clients• Any number of clients possible	<ul style="list-style-type: none">• Lighting management• DALI management	<ul style="list-style-type: none">• Automatic shading system• Complex buildings• Inclusion of weather data• 3D design and simulation• Add-on for BMS Server	<ul style="list-style-type: none">• Overview of all rooms• Guest information• Check in and check out information• Room status• Message processing	Functions	
Web interface <ul style="list-style-type: none">• Alarm management• Trending• Scheduler• Explorer• Actions & Conditions	Web interface <ul style="list-style-type: none">• Visualization	Web interface <ul style="list-style-type: none">• LaMPS app	Web interface <ul style="list-style-type: none">• Shutter Control app	Web interface <ul style="list-style-type: none">• mySmartSuite app	Web Manager apps	
<ul style="list-style-type: none">• KNX• BACnet• Modbus• OPC (DA/UA)• SNMP	<ul style="list-style-type: none">• Fidelio/Opera• Infor• Protel• RMS Cloud• CharPMS	<ul style="list-style-type: none">• VingCard• Salto• Kaba	<ul style="list-style-type: none">• Universal XIO interface• HTTP Server and other web service gateways	<ul style="list-style-type: none">• 3rd party BACnet, oBIX, MQTT and OPC (DA/UA) clients• 3rd party web service clients	Hardware gateways: <ul style="list-style-type: none">• Dali• EnOcean• M-Bus• DMX	Interfaces

BMS functions

 Multi-protocol gateway	 Alarm management	 Trending	 Reporting
Bidirectional data and information change between different protocols and technologies	Monitor the building automation system and report unexpected behavior	Store past data point values for analysis	Management of reports from trend data and historical data point values as well as data from other BMS functions
 Scheduler	 Logic-Engine	 Visualization	 Metering
Definition of time-based events to change data point values or trigger actions	Add control functionality using graphical function block programming or scripts	Sophisticated visualization engine for web and PC based visualization clients	Monitor, analyze and process data from smart meters

Visualization – functions

 <p>Control elements</p> <p>Label, buttons, analog elements (sliders, gauges, ...), link area, multi-state elements, ...</p>	 <p>Vector graphic</p> <p>Support of SVG and AutoCAD drawings (DWG, DXF, ...)</p>	 <p>Auto scaling</p> <p>PC and web based visualization is automatically scaled to the current screen resolution</p>	 <p>Multiple views</p> <p>Support of multiple views for using multiple screens, browser tabs or floating window elements</p>
 <p>Variables</p> <p>Fast creation of large visualizations using project, page, layer, block and group variables. Reuse of pages and groups</p>	 <p>BMS functions</p> <p>Show graphical interface of BMS functions like alarm lists, calendars, trending charts and tables</p>	 <p>User administration</p> <p>Use of central user management of BMS Platform and defining different access rights</p>	 <p>Usability</p> <p>Easy to use editor for creating visualization projects</p>



Web based interface to manage BMS functions

Access by any client with web browser via secure connection (TLS secured https)

User management

Sophisticated user management and access permissions

Web Manager Apps

Use of central user management of BMS Platform and defining different access rights



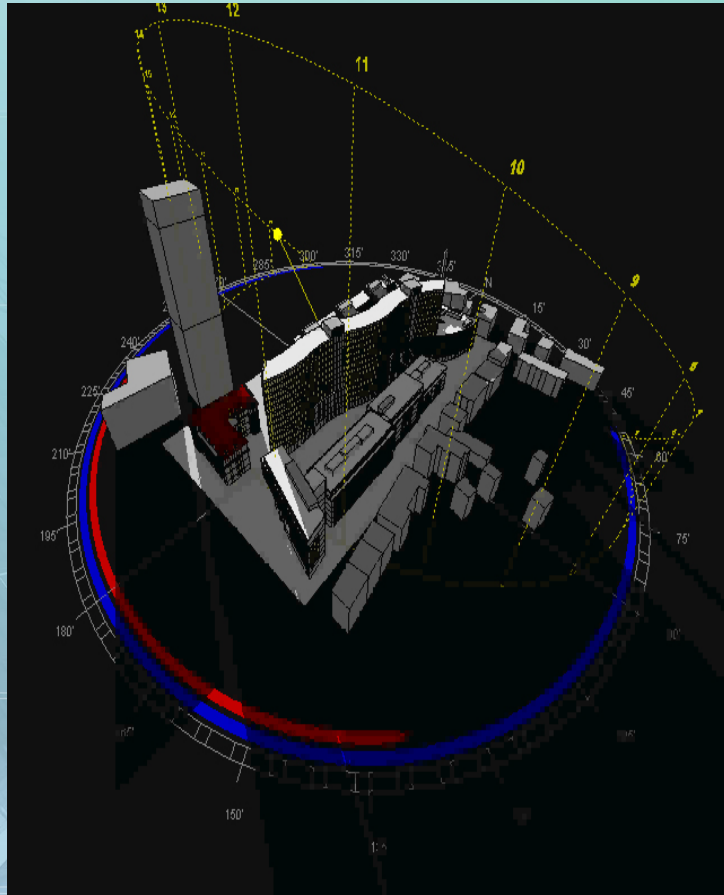
NETx LaMPS

Extension module for NETx BMS Platform	Provides manufacturer-independent view of KNX/DALI gateways		Uniform data point view
Triggering DALI tests	Show common DALI errors and error for each device separately	Support for DALI emergency tests	Stores test results in SQL database
Reporting tool for generating customized reports	Automatic export from ETS using NETx BMS App Secure	Support for multiple KNX/DALI gateways: ABB, Gira, Hager, IPAS, Jung, MDT, Schneider, Siemens, Zennio, EAE, ...	



NETx Shutter Control

NETx Shutter Control - enhanced automatic shading control



3D model of building + neighbor building and surrounding environment

Simulation to calculate optimal position of blinds and their slats

Current weather data + additional inputs are used together with simulated data to control blinds in real time

Decreases energy demand for HVAC system

Increases user comfort

Required for Class B and Class A

License		
Number of data points	Number of visualization clients	Optional: additional license fees for special modules and interfaces
Integrated data points from field level like KNX group addresses, BACnet objects, Modbus registers, SNMP data points, ...	Web and/or PC based clients	<ul style="list-style-type: none"> • Hotel management interfaces Fidelio/Opera or Protel Fix fee + 5 data points for each room • Door lock interfaces VingCard, Salto, Kaba Fix fee + 5 data points for each door lock • NETx LaMPS Fix fee + 1 data point for each DALI ballast • NETx Shutter Control Project specific fee • NETx Metering Module Fix fee + 10 data points for each measurement value • NETx mySmartSuite sufficient number of NETx visualization clients required • and more
Licensing process		
Hardlock	Softlock	
USB Dongle hardware independent	Unlock code dependent on hardware and operating system	

Operating system - Windows based operating system required

Windows 10 / Windows 11

Windows Server 2016 / Windows Server 2019 / Windows Server 2022

For maintainable systems we strongly recommend at least Windows 10 or Windows Server 2016 (or higher), except NETx KNX OPC Server 3.5. Our products basically also run on older Windows versions down to Windows 7 and Windows Server 2008. However, due to limited future support for these operating systems by Microsoft we will not be able to provide full support for our software running on these systems.

Hardware

Any device that supports Microsoft Windows can be used

Use of virtualization environments possible

Requirements depend on project size
(small embedded device up to server systems)

VMWare, Virtualbox, Hyper-V, ...

KNX

BACnet

MQTT

Modbus

OPC
(DA/UA)

SNMP

Fidelio/Opera | Protel | Infor
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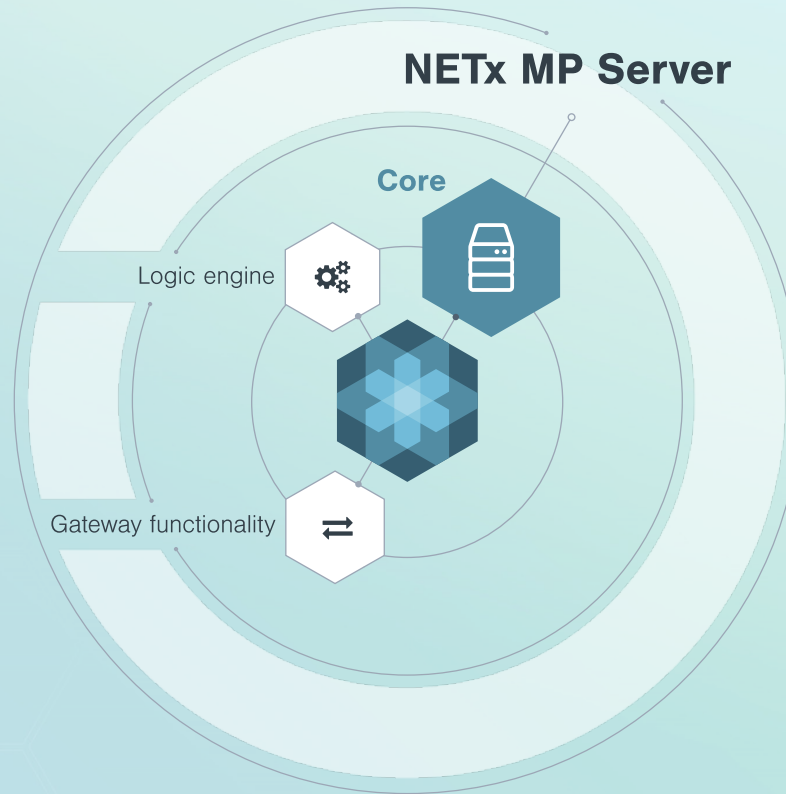
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Proprietary solutions

All-in-one

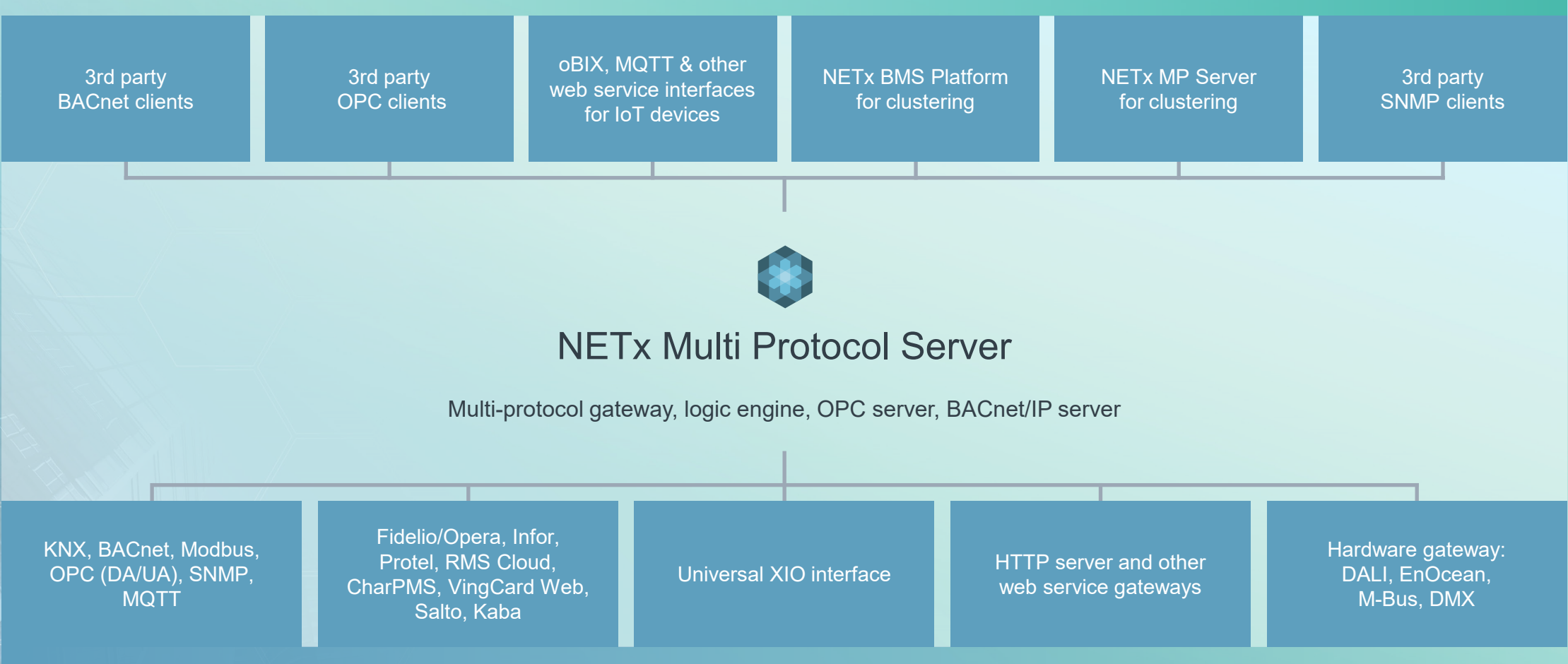
**Building management software for
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NETx Multi Protocol Server



Successor product
of
NETx KNX OPC
Server 3.5

Upgrade from
NETx MP Server to
NETx BMS Platform
possible



Interfaces to the field level

Open and standard protocols	Hotel management system	Door lock systems
KNX, BACnet, Modbus, SNMP, OPC, MQTT	Fidelio/Opera, Infor, Protel, RMS Cloud, CharPMS, VingCard Web, Salto, Kaba	VingCard, Kaba, Salto
HTTP Server and other Web Service Gateways	Develop your own interface	Customer specific interface on request

Interfaces to the management level

OPC

OPC DA 2.0 and OPC UA

BACnet

BACnet/IP server

MQTT

Communication to one or more MQTT brokers

oBIX and other Web
Service interfaces for IoT

oBIX 1.1 and KNX Web Services

NETx BMS Platform < > NETx MP Server

Product features	NETx BMS Platform	NETx MP Server		NETx BMS Platform	NETx MP Server
Several interfaces to the field level KNX, Modbus, BACnet, SNMP, etc.	✓	✓	Alarm management definition of alarms, displaying alarm lists	✓	✗
Several interfaces to the management level OPC, BACnet/IP, oBIX, KNX WS, MQTT, etc.	✓	✓	Trending historical database	✓	✗
Multi-protocol gateway connects several interfaces to the field level	✓	✓	Scheduling time-based events	✓	✗
Import of the device configuration for KNX ETS projects, BACnet discovery, OPC/BMS explorer	✓	✓	Reporting create PDF, Excel,... reports	✓	✗
Monitoring field level and management level analysis	✓	✓	Web-based visualization access with all devices with web browser	✓	✗
Programming logics LUA Script, graphical programming	✓	✓	Web-based management Web Manager including user management	✓	✗
Clustering data exchange between servers	✓	✓	PC-based visualization access with Windows devices	✓	✗

NETx BMS Platform < > NETx MP Server

Product extensions	NETx BMS Platform	NETx MP Server		NETx BMS Platform	NETx MP Server
LaMPS Lighting and DALI management	✓	✓	Shutter Control Automatic shading of complex buildings	✓	✗
Metering Module Monitor, analyze and process data from smart meters	✓	✓	mySmartSuite Integrated hotel solution	✓	✗
Interfaces to the management level	NETx BMS Platform	NETx MP Server		NETx BMS Platform	NETx MP Server
OPC provides data for other OPC clients	✓	✓	MQTT provides data via MQTT	✓	✓
BACnet/IP provides data for BACnet clients	✓	✓	SQL MariaDB, MS SQL Server for historical data	✓	✗
oBIX provides data for oBIX clients	✓	✓	Web Web Manager and Web Visualization	✓	✗

NETx BMS Platform < > NETx MP Server

Interfaces to the field level	NETx BMS Platform	NETx MP Server		NETx BMS Platform	NETx MP Server
KNX Secure KNXnet/IP tunnelling KNXnet/IP tunnelling/routing	✓	✓	DALI Digital Addressable Lighting Interface	with hardware gateway	
BACnet BACnet/IP other BACnet media (BACnet MS/TP,...)	✓	✓	DMX512 stage lighting and effects	with hardware gateway	
Modbus Modbus/TCP Modbus RTU over IP	✓	✓	EnOcean wireless building automation	with hardware gateway	
SNMP v1, v2, v3	✓	✓	M-Bus europ. standard for remote reading of smart meters	with hardware gateway	
OPC Integration of other OPC servers	✓	✓	Hotel management Fidelio/Opera Protel Infor RMS Cloud CharPMS	✓	✓
HTTP and web services Integration of data from HTTP servers & web service gateways	✓	✓	Door locking systems: VingCard Kaba SALTO		
Special interfaces on request	✓	✓	Own interfaces via LUA script, UDP, TCP, RS-232 protocol via C# .NET API	✓	✓

License			
Number of data points		Optional: additional license fees for special modules and interfaces	
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