NETx
AUTOMATION

KNX

BACnet

MQTT

Modbus

OPC
(DA/UA)

Helvar

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 Multi Protocol Server
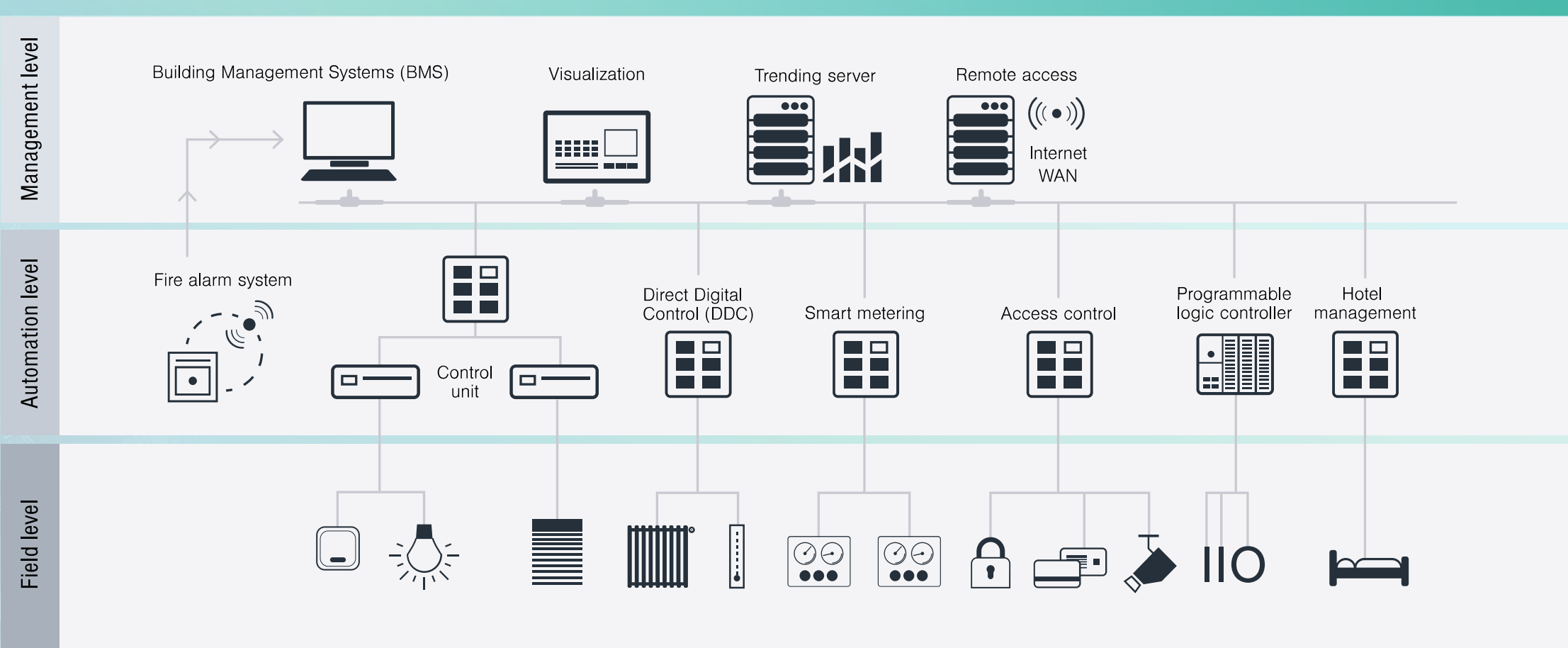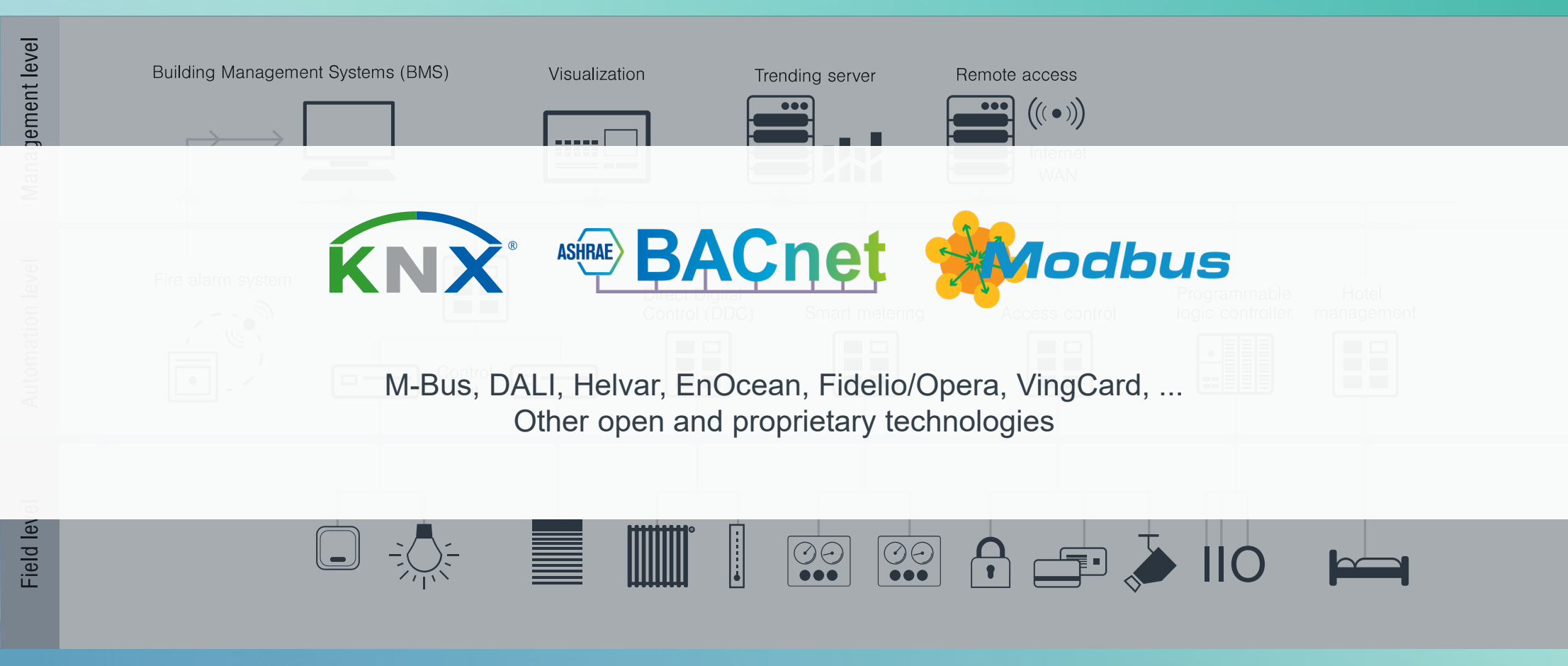
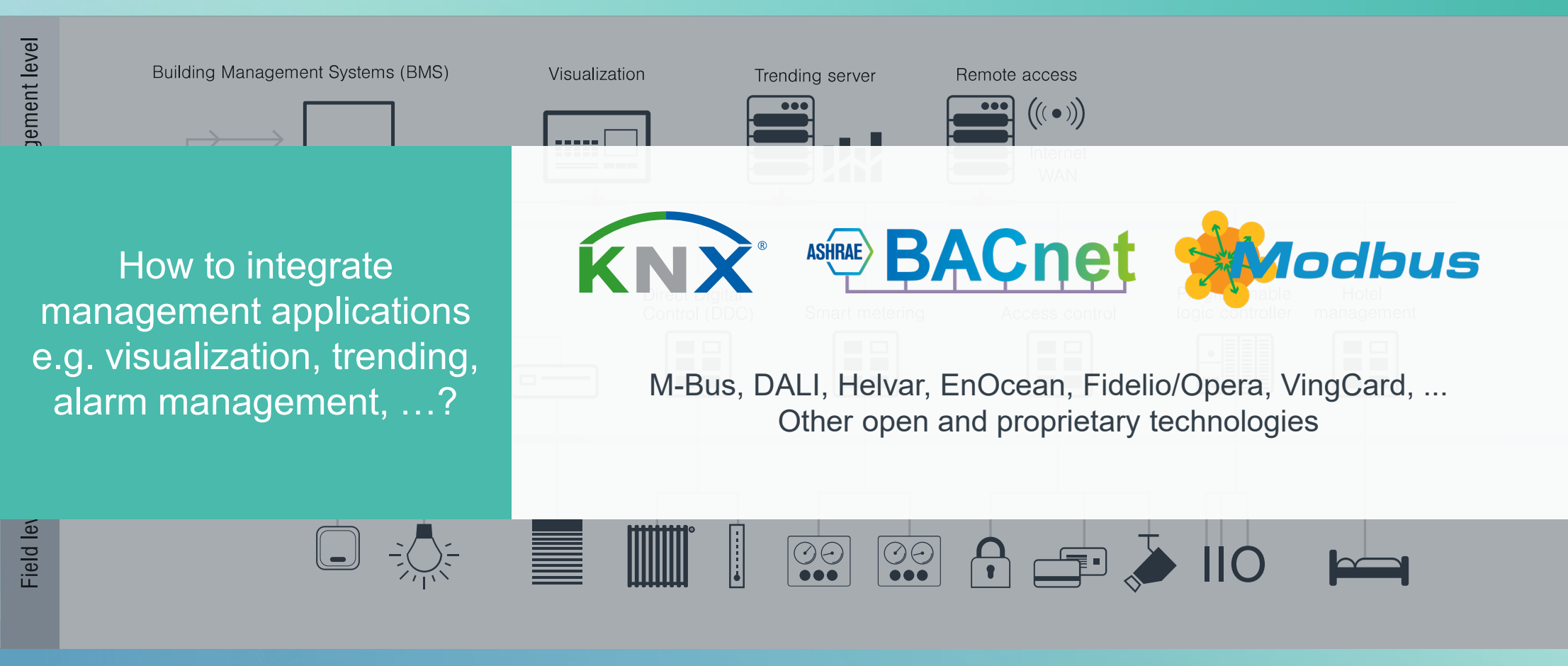Building automation systems are heterogeneous

Many different technologies are used

Each technology has its characteristics and its own way to represent and process control data

Building automation

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Management level

Building Management Systems (BMS)

Visualization

Trending server

Remote access

Internet
WAN

Automation level

Fire alarm system

Control unit

Direct Digital Control (DDC)

Smart metering

Access control

Programmable logic controller

Hotel management

Field level

NETx MP Server

Core

Logic engine

Gateway functionality

Upgrade from
NETx MP Server to
NETx BMS Platform
possible

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 Monitor, analyze and process data from smart meters	✔	✘	mySmartSuite Integrated Hotel solution for any type of hotel project	✔	✘

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

NETx AUTOMATION

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

Operating system & hardware

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.
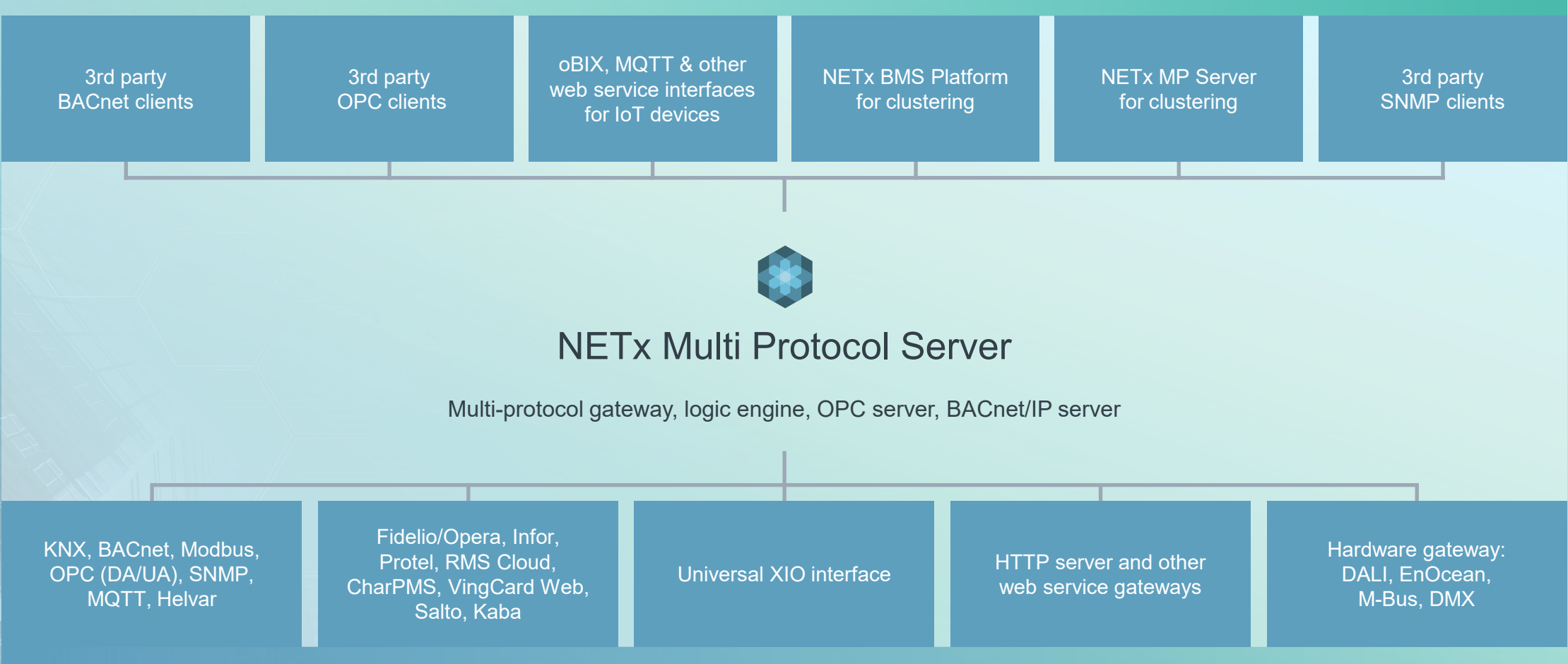
Hardware

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, ...

Licensing

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License

Number of data points	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, ...

- **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

- **and more**

Licensing process

Hardlock	Softlock
USB Dongle hardware independent	Unlock code dependent on hardware and operating system

NETx Multi Protocol Server

| 3rd party BACnet clients | 3rd party OPC clients | oBIX, MQTT & other web service interfaces for IoT devices | NETx BMS Platform for clustering | NETx MP Server for clustering | 3rd party SNMP clients |

NETx Multi Protocol Server

Multi-protocol gateway, logic engine, OPC server, BACnet/IP server

| KNX, BACnet, Modbus, OPC (DA/UA), SNMP, MQTT, Helvar | Fidelio/Opera, Infor, Protel, RMS Cloud, CharPMS, VingCard Web, Salto, Kaba | Universal XIO interface | HTTP server and other web service gateways | Hardware gateway: DALI, EnOcean, M-Bus, DMX |

Interfaces to the field level

Open and standard protocols	Hotel management system	Door lock systems
KNX, BACnet, Modbus, SNMP, OPC (DA/UA), 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

Integration of 3rd party systems

Integration of OPC clients	Integration of BACnet clients	Integration of OPC servers
3rd party clients	3rd party BMS systems from Siemens, Schneider Electric, Honeywell, Sauter	Fire detection systems, elevators, etc. with different proprietary systems

Logic engine
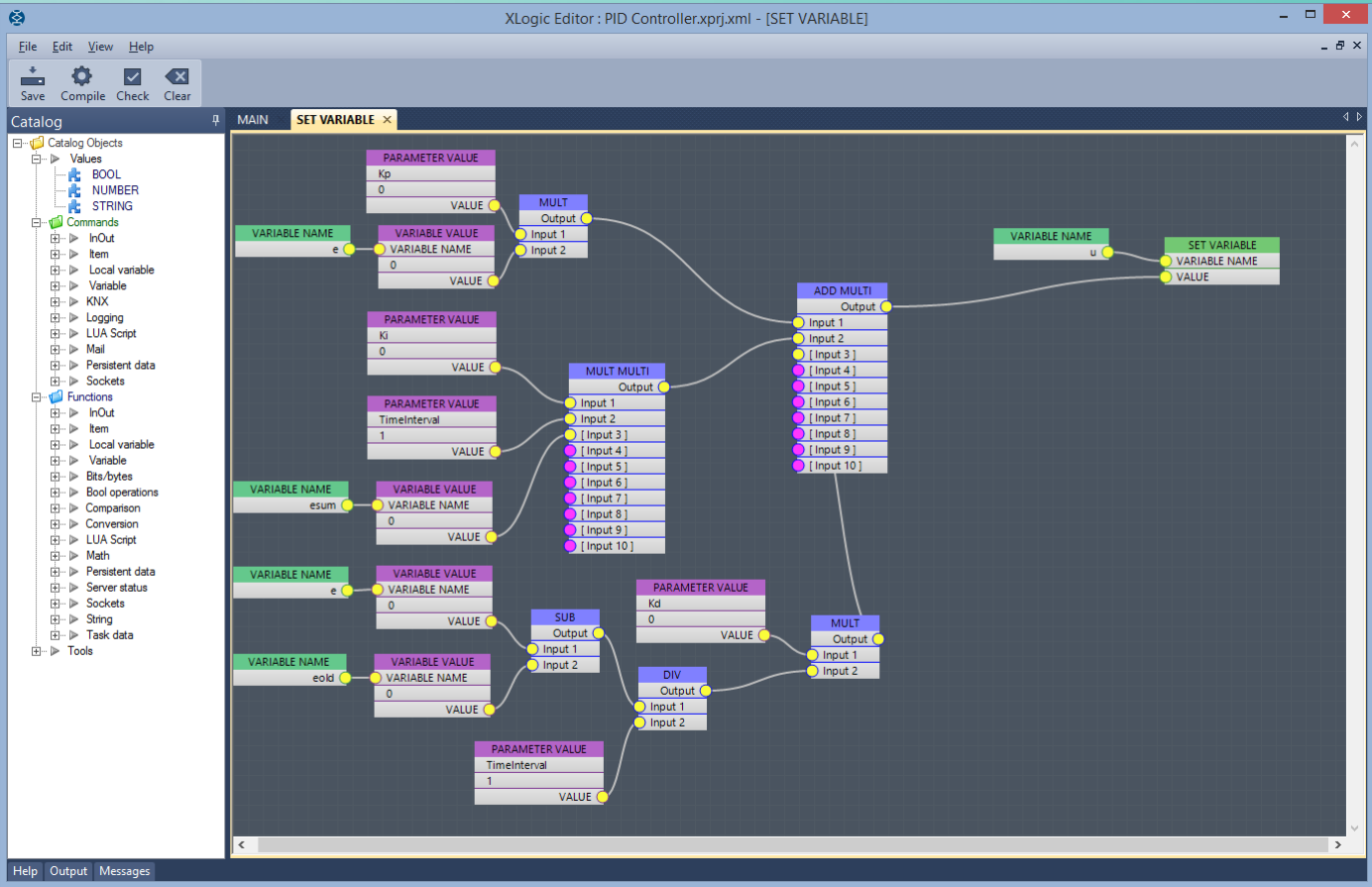
Adding control functions that are missing within the field devices

Adding control functions that are distributed across devices that use different technologies

XLogic editor: graphical functional block programming

LUA scripts: script engine

www.netxautomation.com