

KNX

BACnet

MQTT

Modbus

Helvar

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 Multi Protocol Server

Building automation systems are heterogeneous



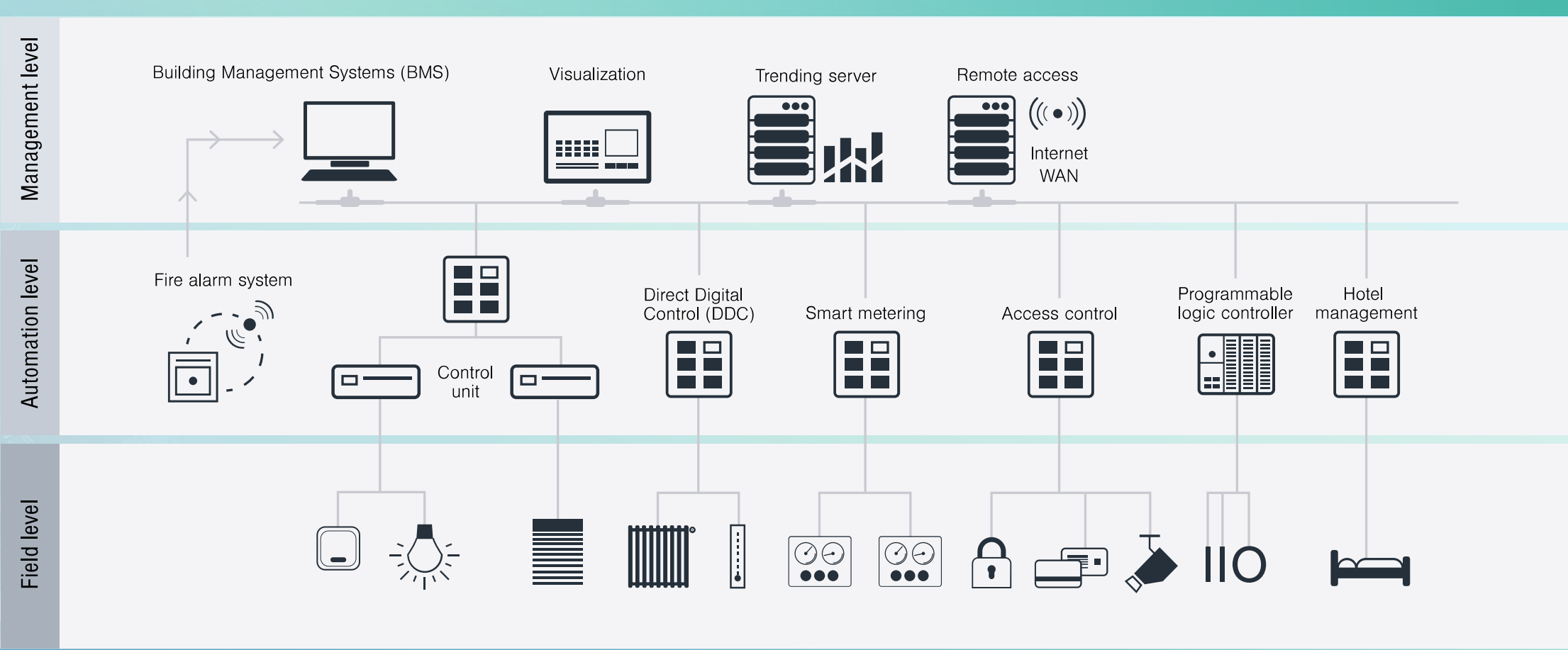
Many different technologies are used



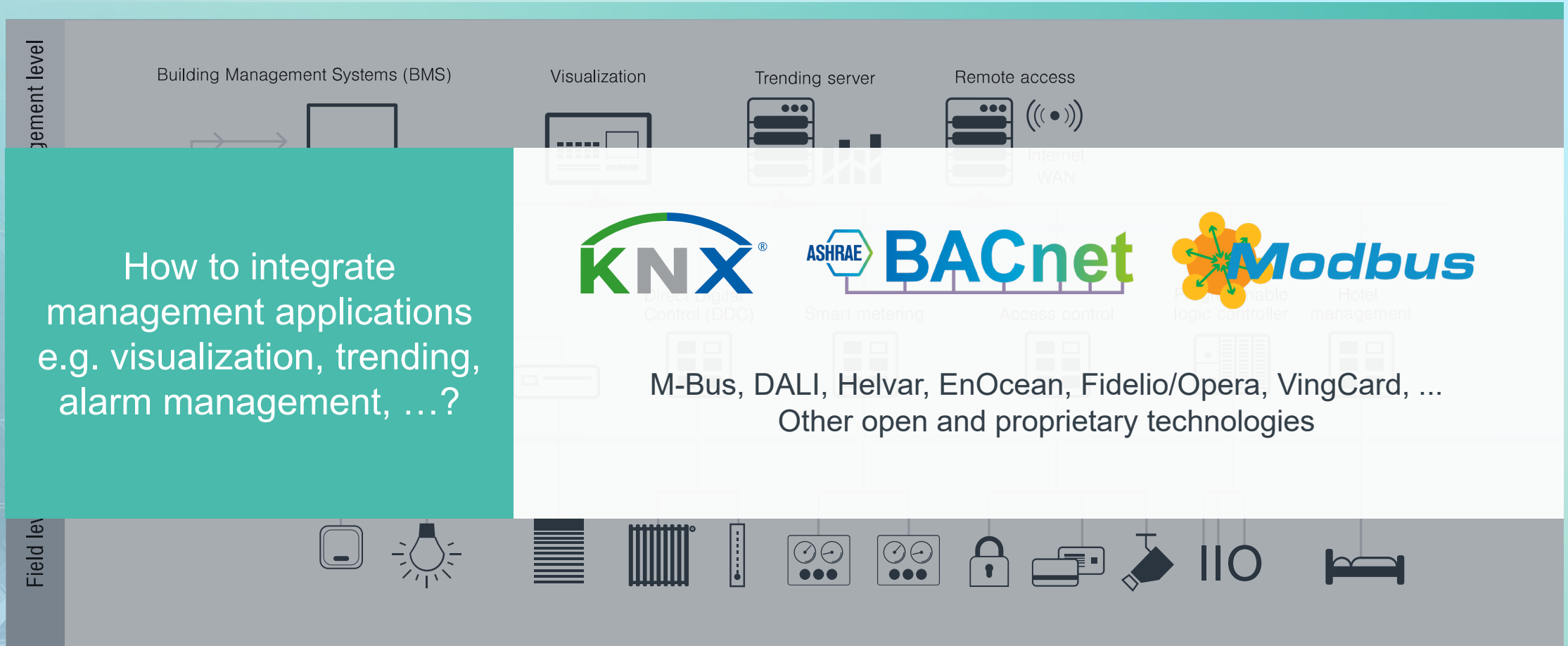
Each technology has its characteristics and its own way to represent and process control data



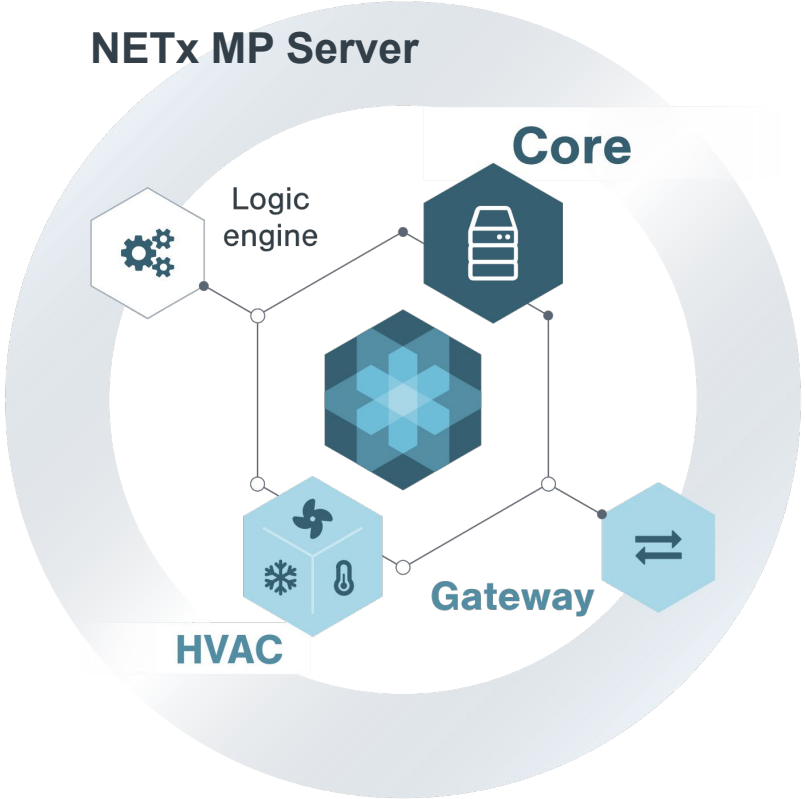
Building automation







How to integrate management applications e.g. visualization, trending, alarm management, ...?



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 Module 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

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). 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.

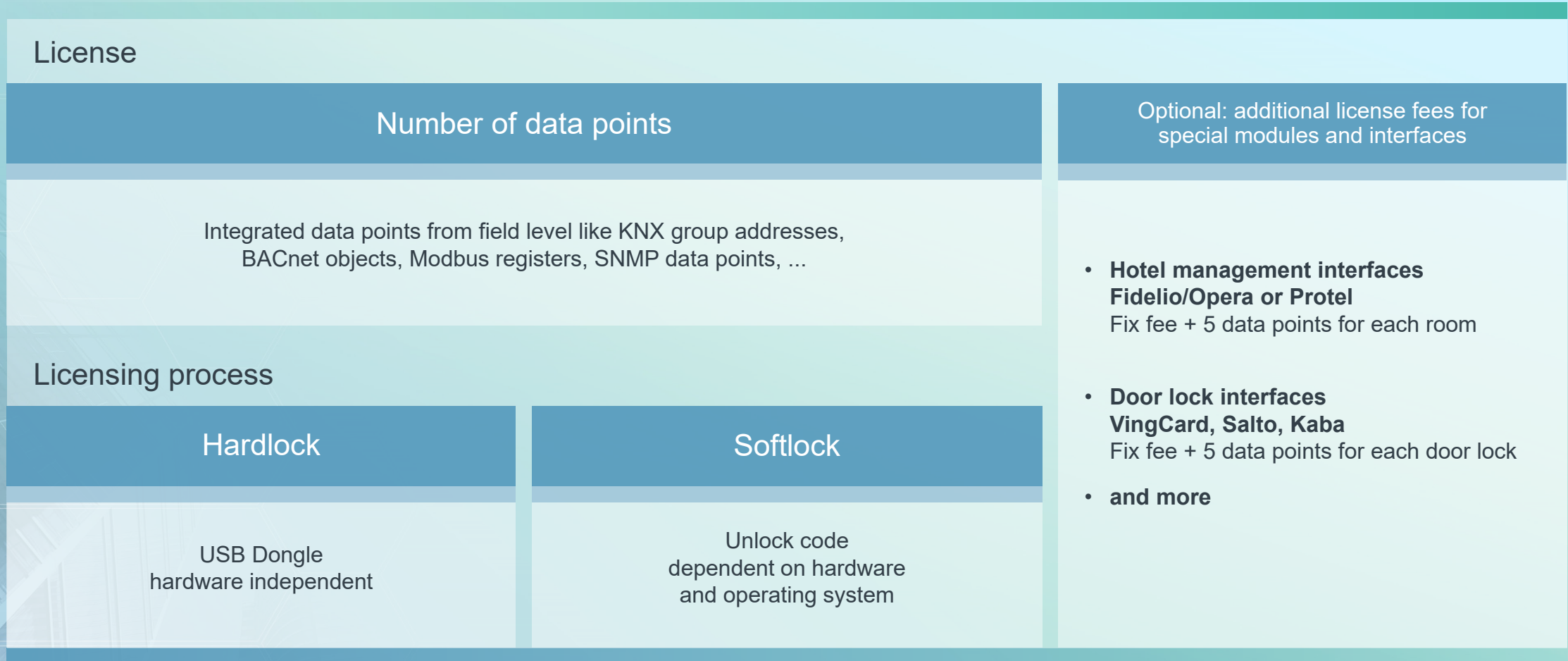
Hardware

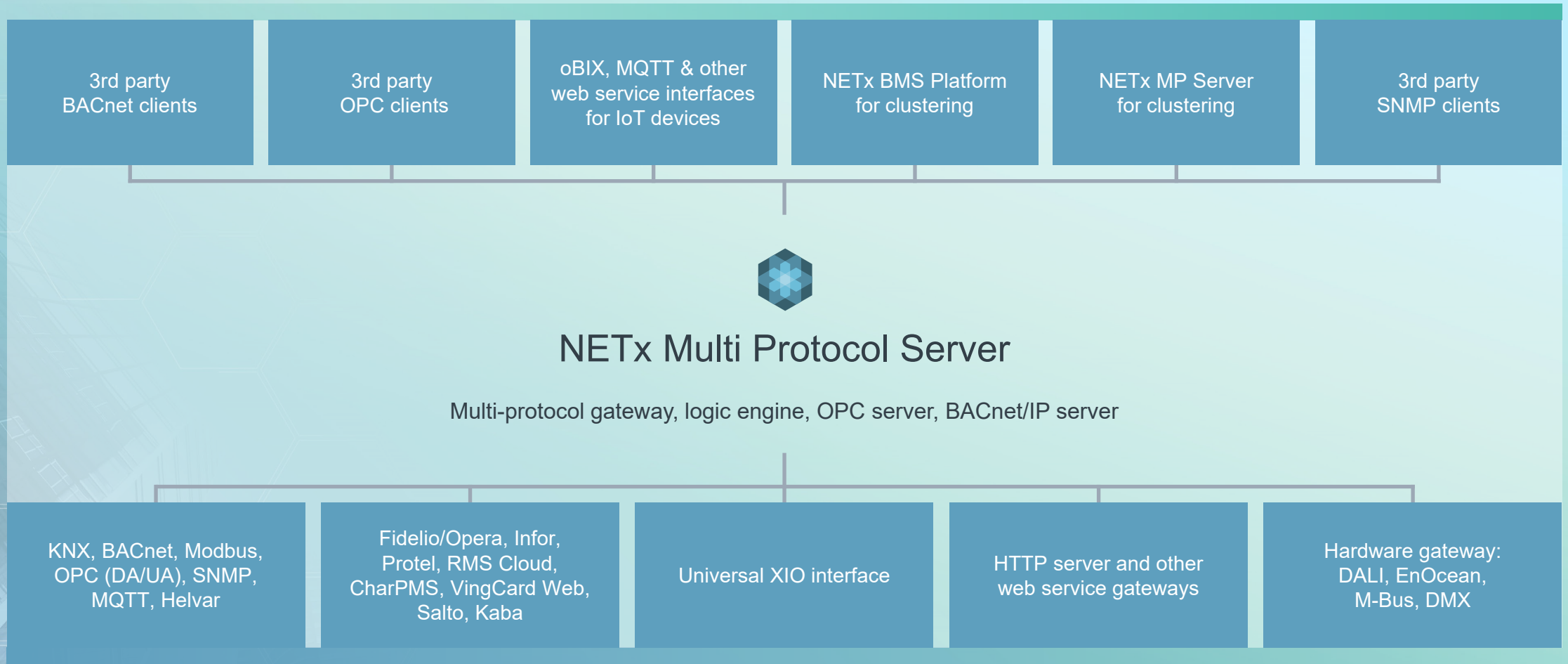
Any device that supports Microsoft Windows can be used

Use of virtualization environments possible

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

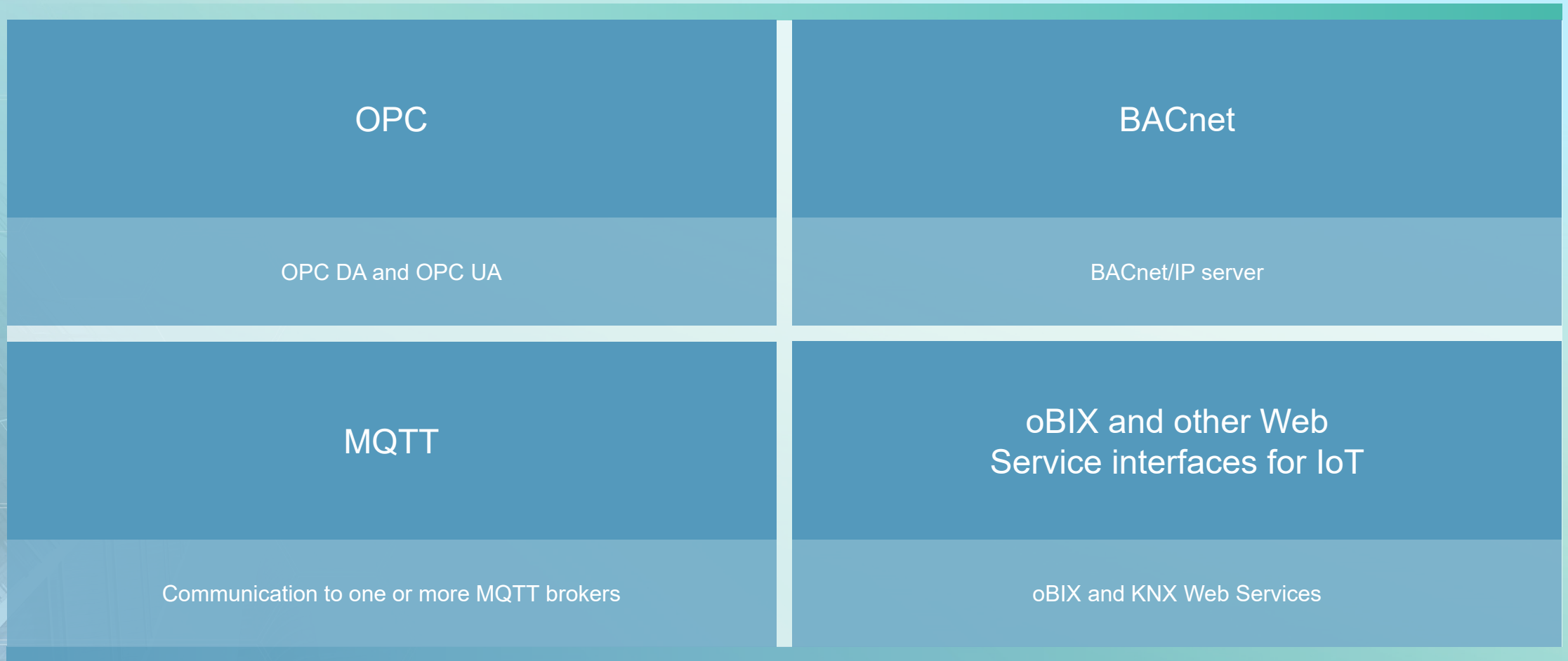
VMWare, Virtualbox, Hyper-V, ...



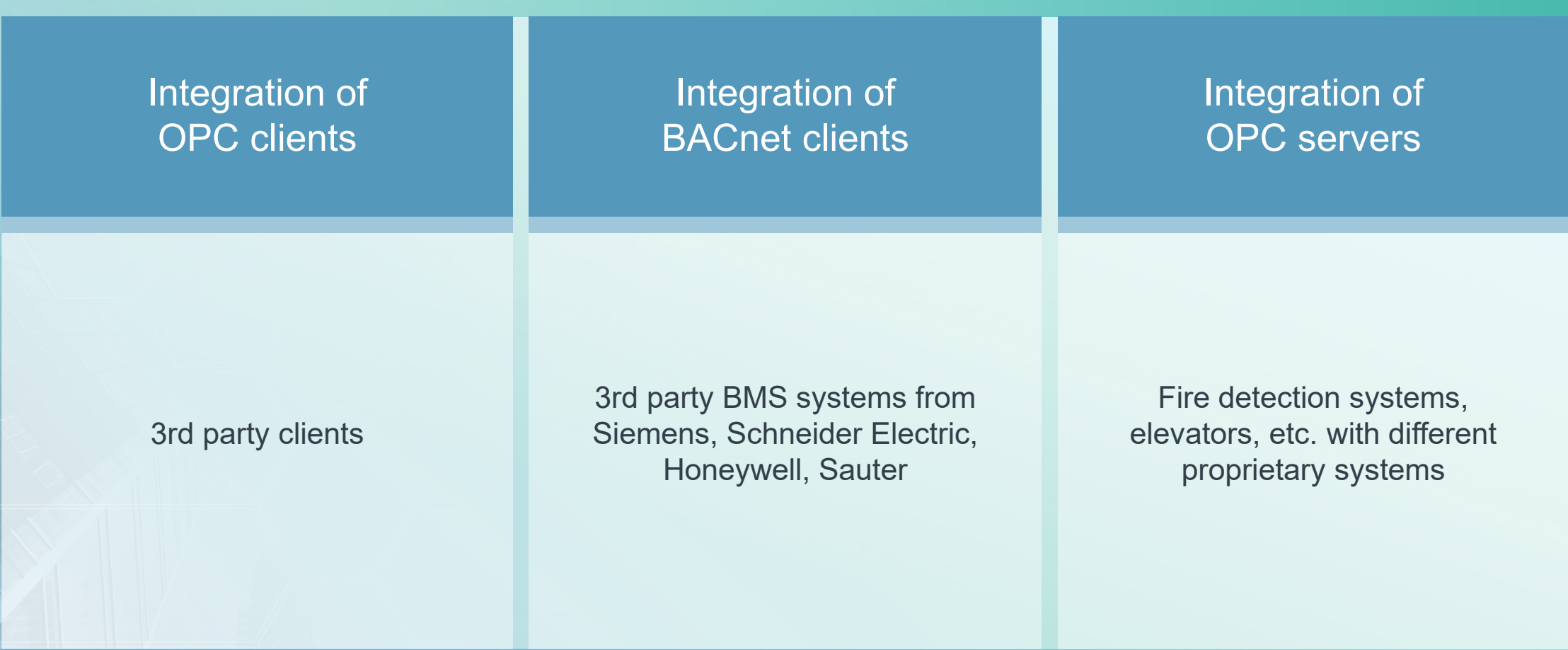


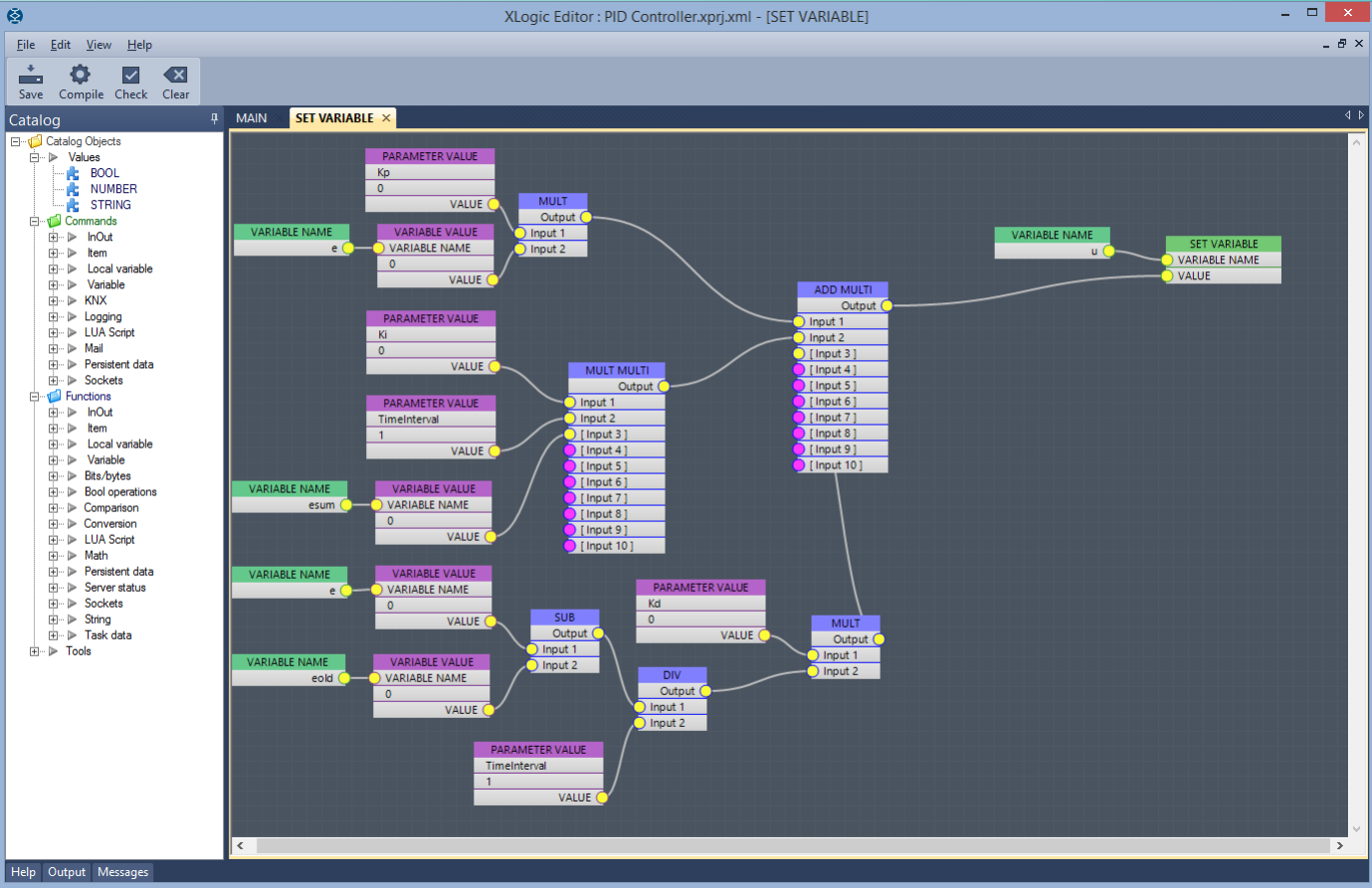
<h2>Open and standard protocols</h2>	<h2>Hotel management system</h2>	<h2>Door lock systems</h2>
<p>KNX, BACnet, Modbus, SNMP, OPC (DA/UA), MQTT</p>	<p>Fidelio/Opera, Infor, Protel, RMS Cloud, CharPMS, VingCard Web, Salto, Kaba</p>	<p>VingCard, Kaba, Salto</p>
<h2>HTTP Server and other Web Service Gateways</h2>	<h2>Develop your own interface</h2>	<h2>Customer specific interface on request</h2>

Interfaces to the management level



Integration of 3rd party systems





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