

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 Multi Protocol Server**

Building automation systems are heterogeneous



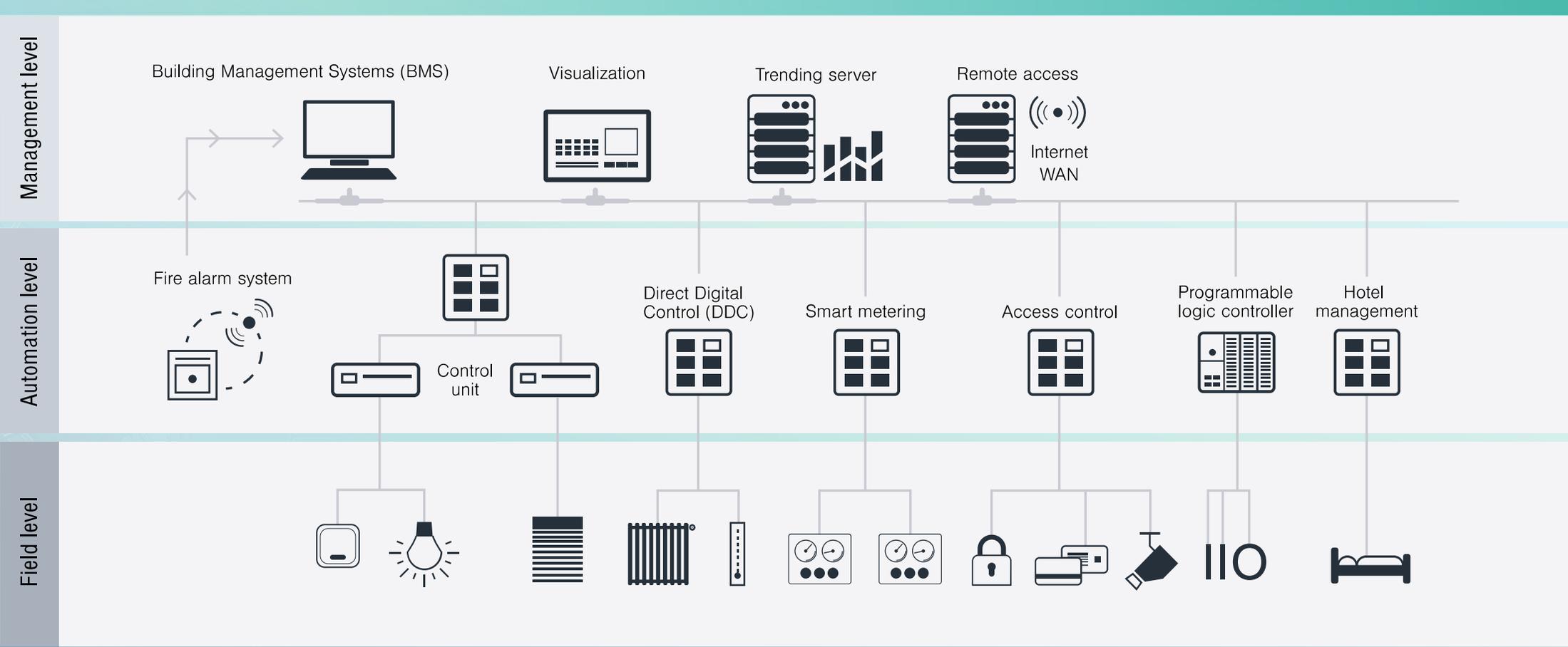
Many different technologies are used

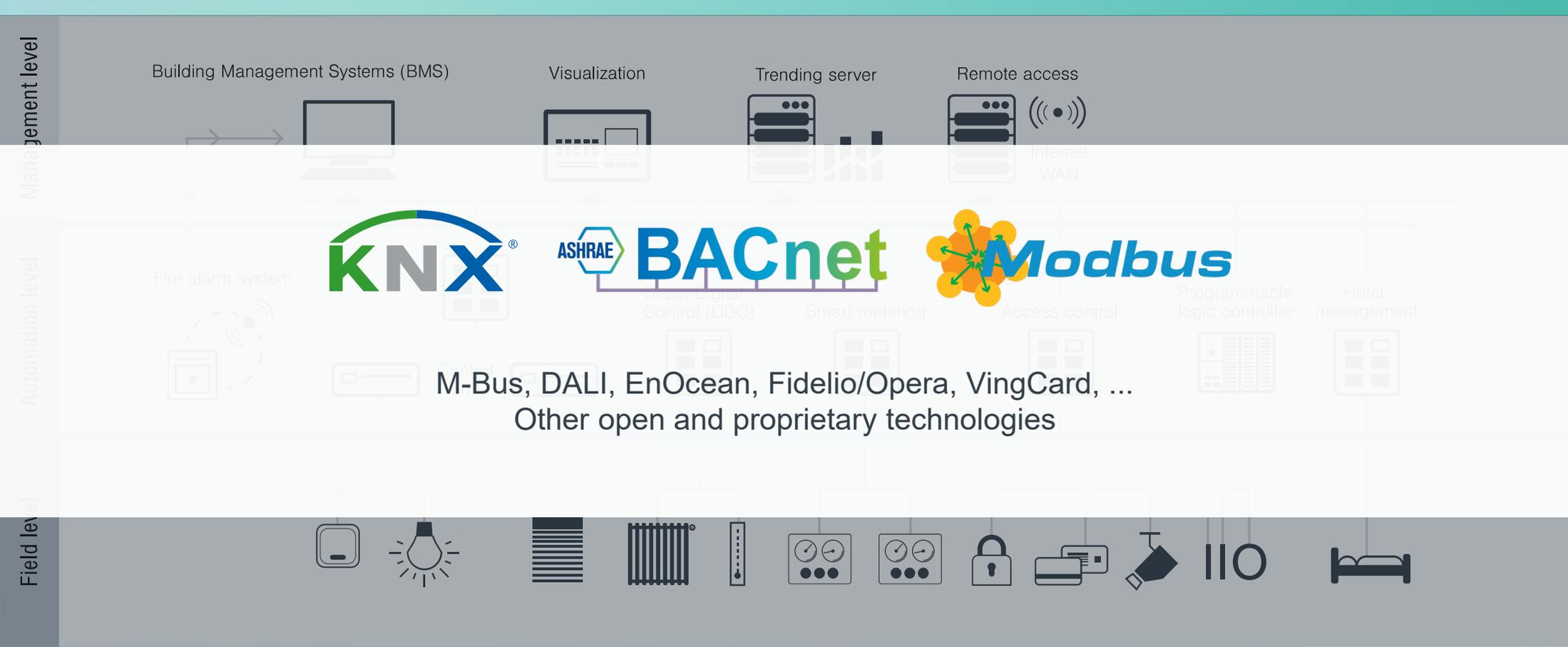


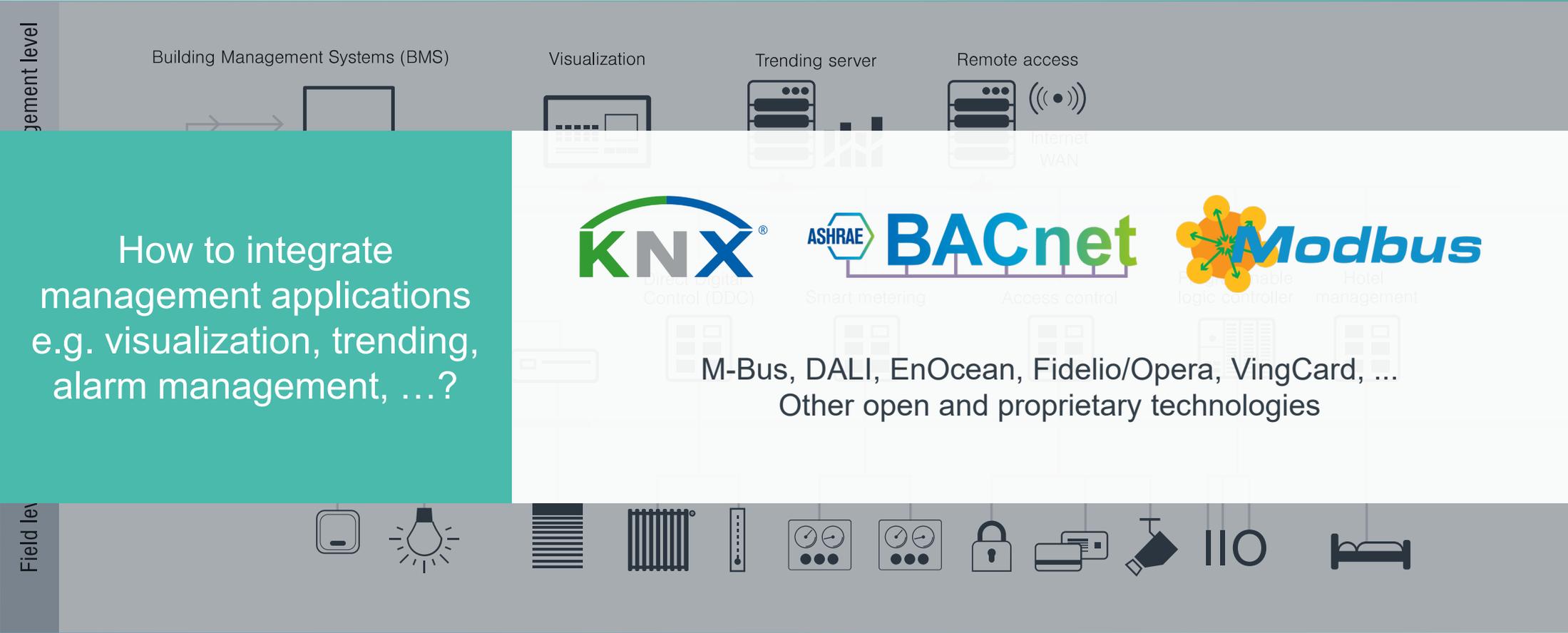
Each technology has its characteristics and its own way to represent and process control data

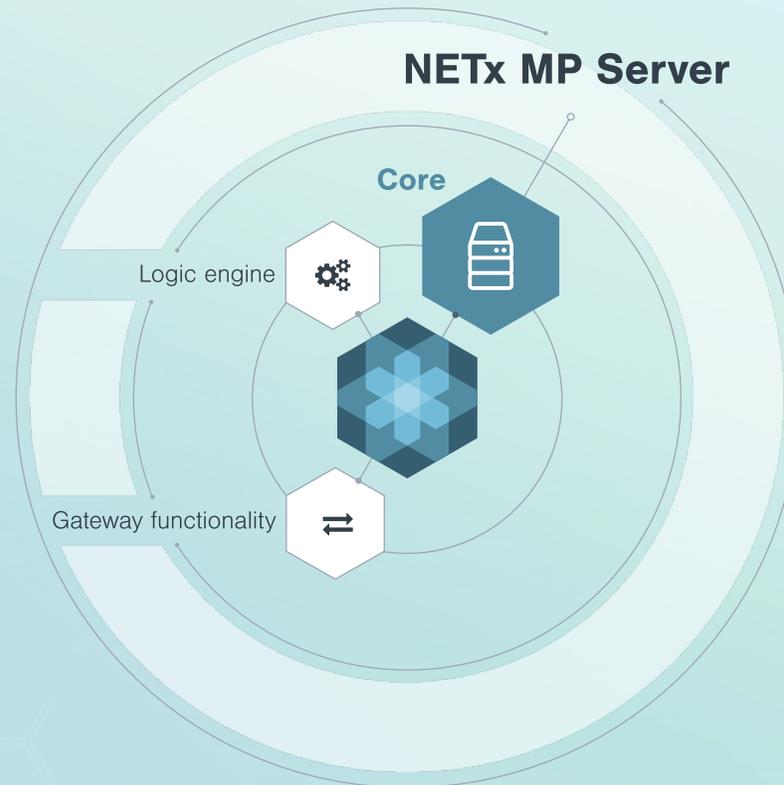


# Building automation









Successor product  
of  
NETx KNX OPC  
Server 3.5

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
<b>LaMPS</b> lighting and DALI management	✓	✗	<b>Shutter Control</b> automatic shading of complex buildings	✓	✗
<b>Metering</b> Monitor, analyze and process data from smart meters	✓	✗	<b>mySmartSuite</b> 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
<b>OPC</b> provides data for other OPC clients	✓	✓	<b>MQTT</b> provides data via MQTT	✓	✓
<b>BACnet/IP</b> provides data for BACnet clients	✓	✓	<b>SQL</b> MariaDB, MS SQL Server for historical data	✓	✗
<b>oBIX</b> provides data for oBIX clients	✓	✓	<b>Web</b> 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
<b>KNX</b> Secure KNXnet/IP tunnelling   KNXnet/IP tunnelling/routing	✓	✓	<b>DALI</b> Digital Addressable Lighting Interface	with hardware gateway	
<b>BACnet</b> BACnet/IP   other BACnet media (BACnet MS/TP,... )	✓	✓	<b>DMX512</b> stage lighting and effects	with hardware gateway	
<b>Modbus</b> Modbus/TCP   Modbus RTU over IP	✓	✓	<b>EnOcean</b> wireless building automation	with hardware gateway	
<b>SNMP</b> v1, v2, v3	✓	✓	<b>M-Bus</b> europ. standard for remote reading of smart meters	with hardware gateway	
<b>OPC</b> Integration of other OPC servers	✓	✓	<b>Hotel management</b> Fidelio/Opera   Protel   Infor   RMS Cloud   CharPMS	✓	✓
<b>HTTP and web services</b> Integration of data from HTTP servers & web service gateways	✓	✓	Door locking systems: VingCard   Kaba   SALTO		
<b>Special interfaces</b> on request	✓	✓	<b>Own interfaces</b> via LUA script, UDP, TCP, RS-232 protocol   via C# .NET API	✓	✓

## 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

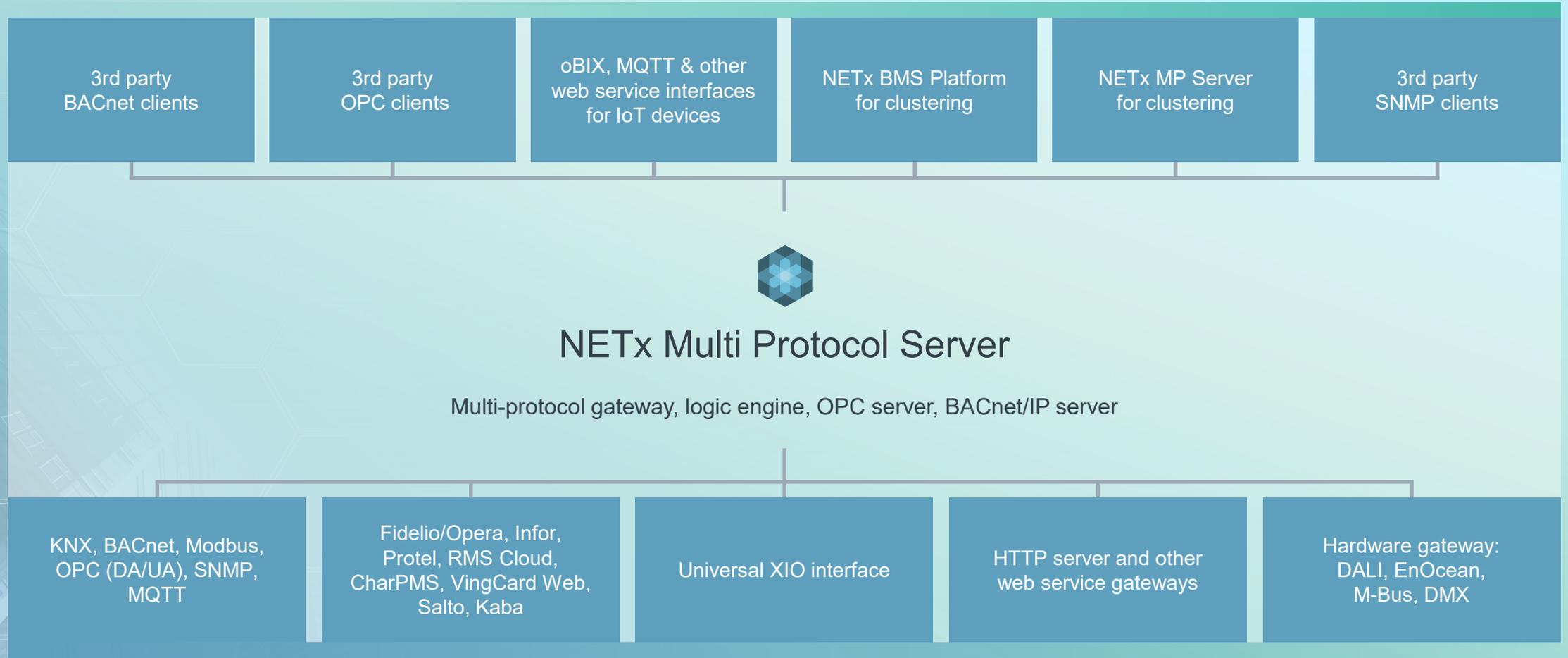
Any device that supports Microsoft Windows can be used

Use of virtualization environments possible

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

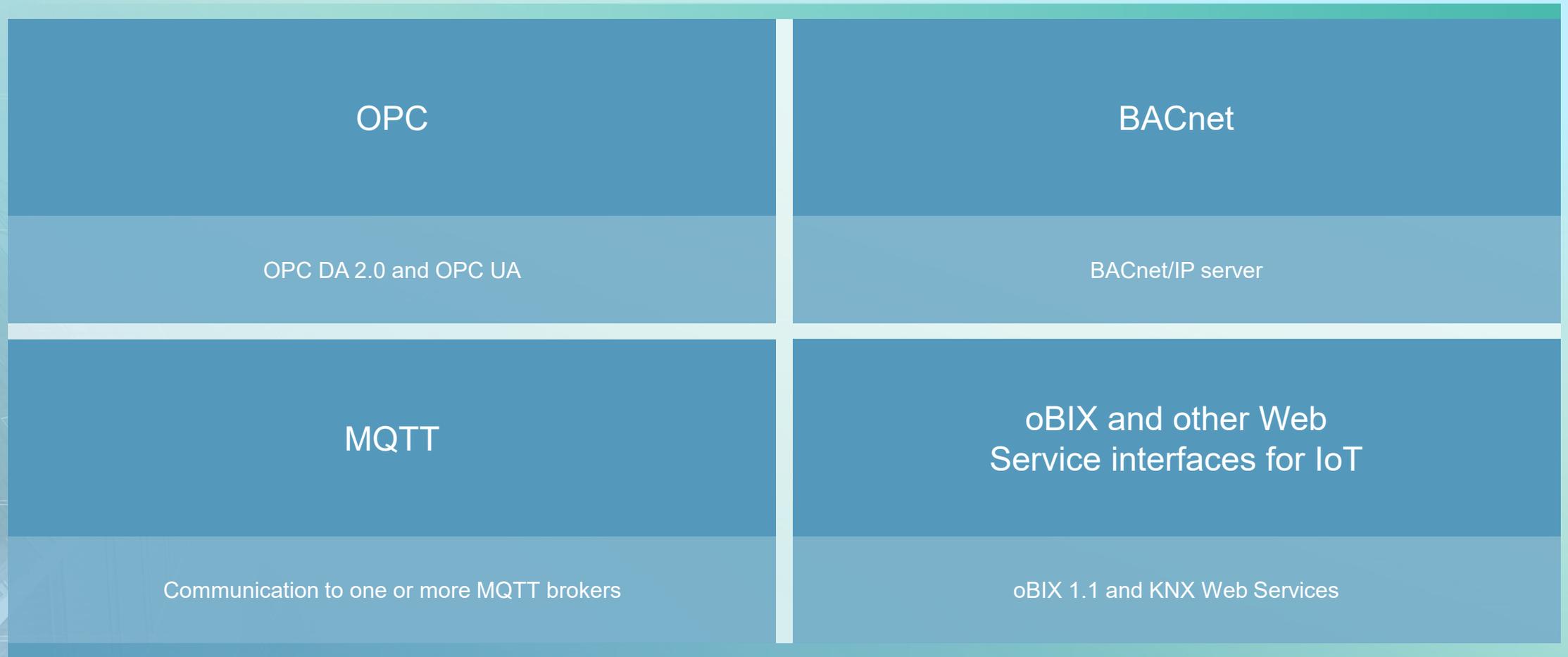
VMWare, Virtualbox, Hyper-V, ...

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, ...		<ul style="list-style-type: none"><li>• <b>Hotel management interfaces</b> <b>Fidelio/Opera or Protel</b> Fix fee + 5 data points for each room</li><li>• <b>Door lock interfaces</b> <b>VingCard, Salto, Kaba</b> Fix fee + 5 data points for each door lock</li><li>• <b>and more</b></li></ul>
Licensing process		
Hardlock	Softlock	
USB Dongle hardware independent	Unlock code dependent on hardware and operating system	

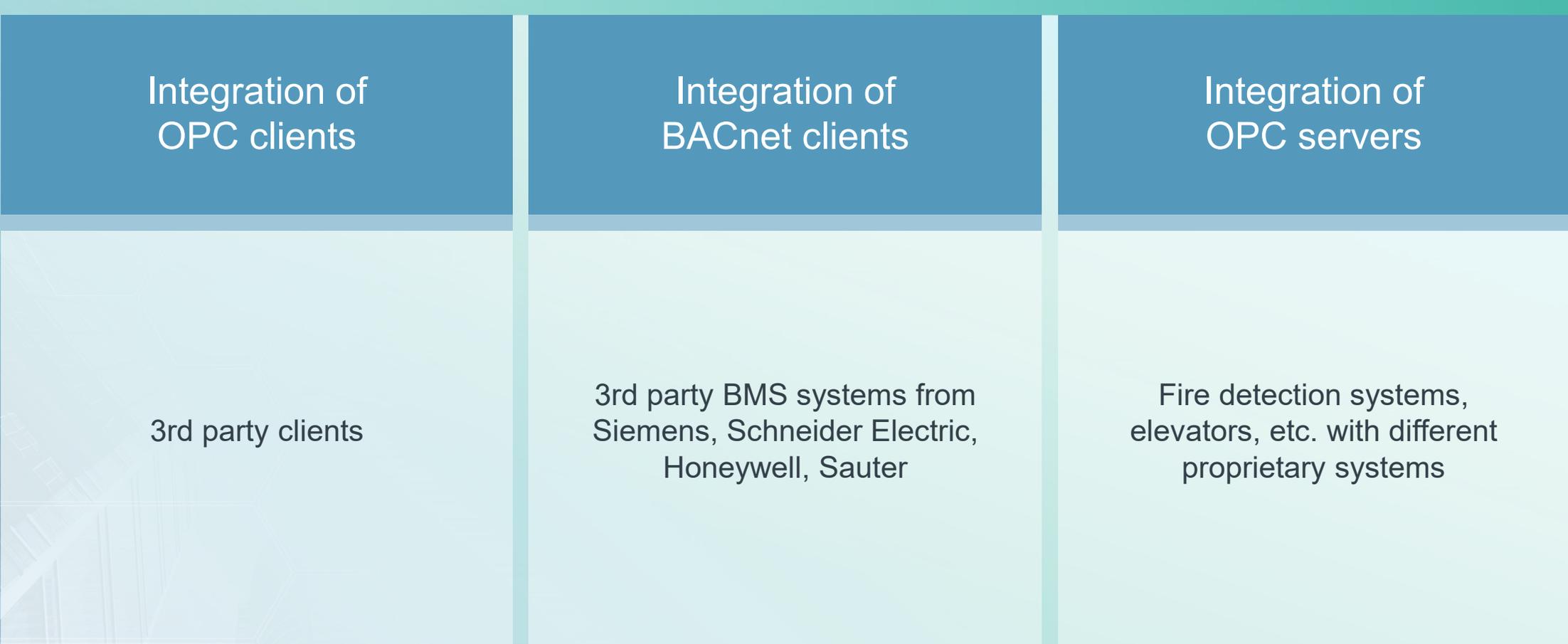


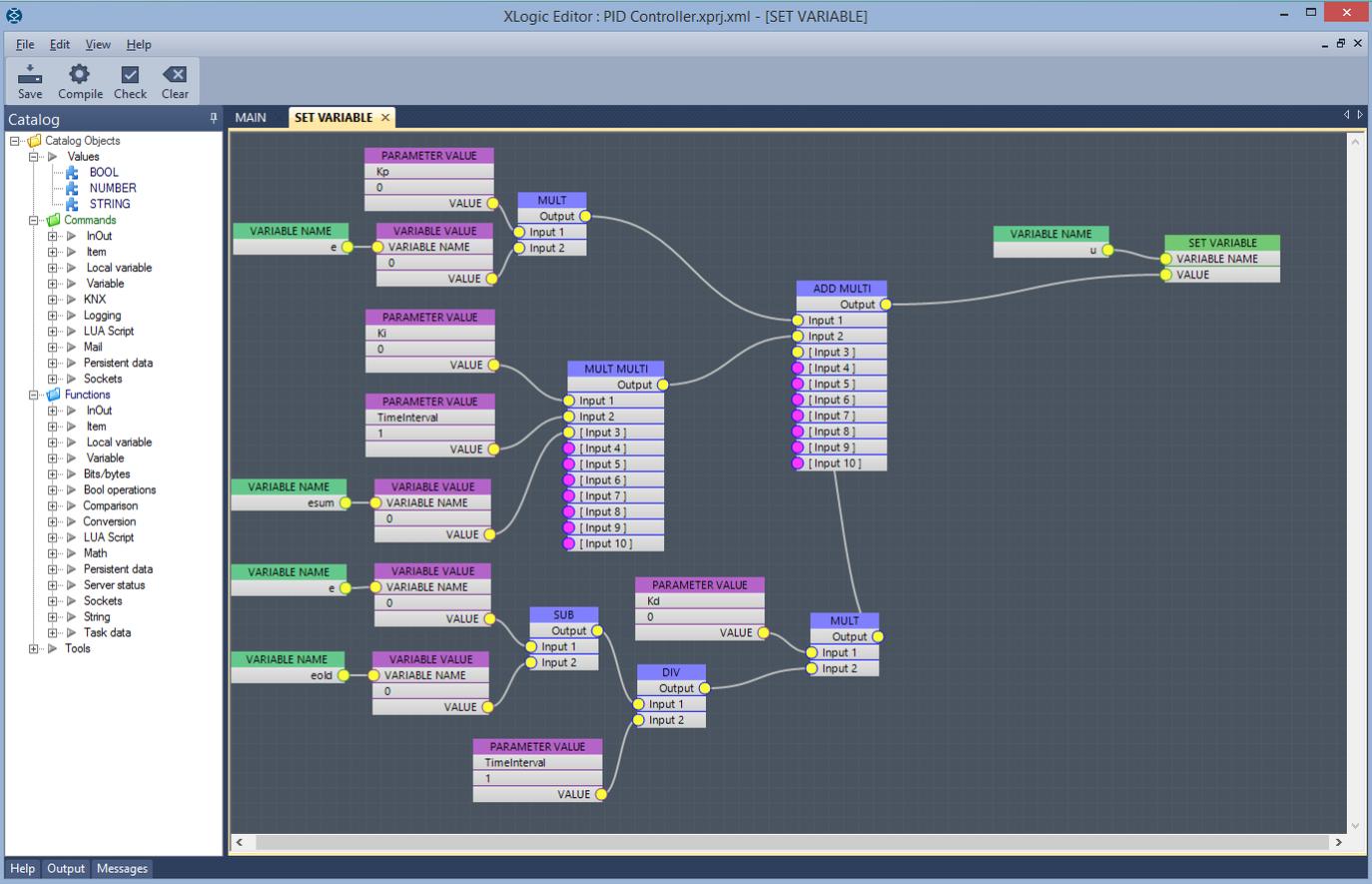
<h2>Open and standard protocols</h2>	<h2>Hotel management system</h2>	<h2>Door lock systems</h2>
<p>KNX, BACnet, Modbus, SNMP, OPC (DA/UA), MQTT</p>	<p>Fidelio/Opera, Infor, Protel, RMS Cloud, CharPMS, VingCard Web, Salto, Kaba</p>	<p>VingCard, Kaba, Salto</p>
<h2>HTTP Server and other Web Service Gateways</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](http://www.netxautomation.com)