

KNX

BACnet

MQTT

Modbus

OPC  
(DA/UA)

SNMP

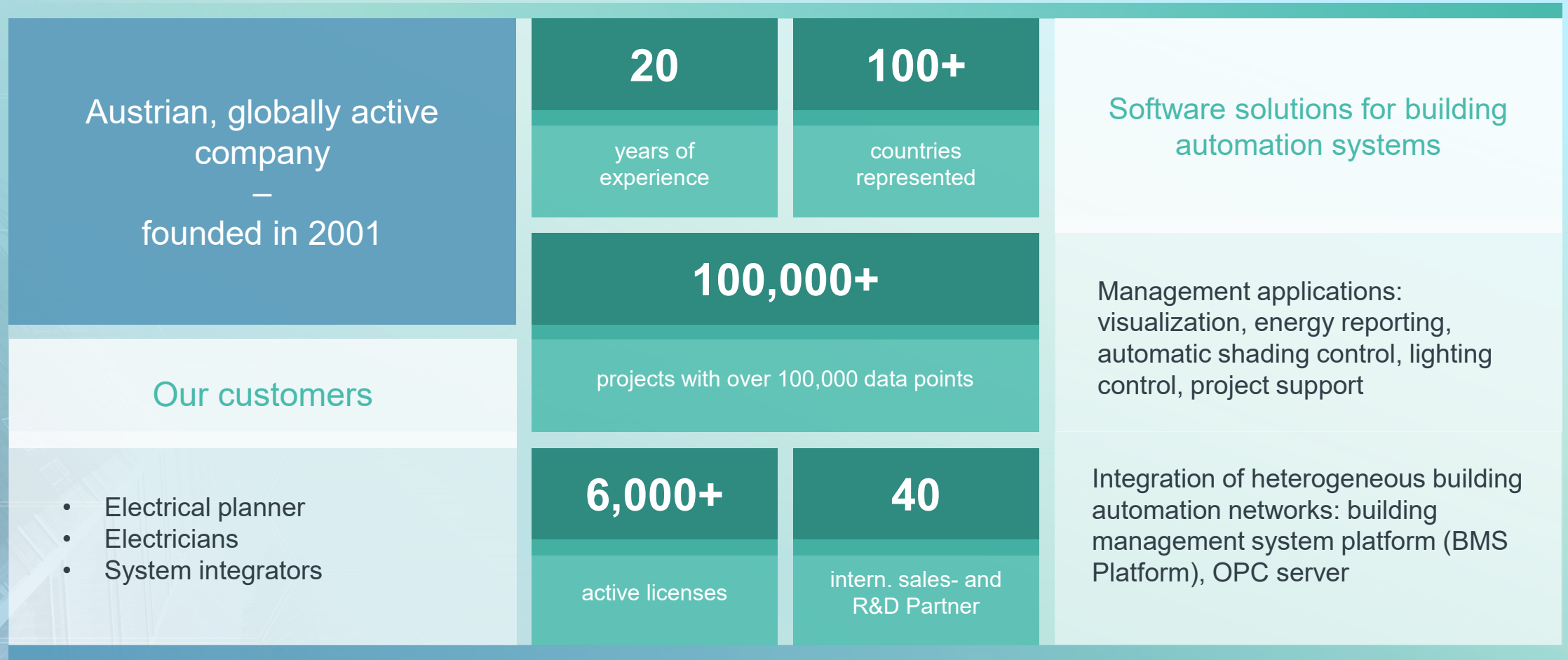
Fidelio/Opera | Protel | Infor  
RMS Cloud | CharPMS  
VingCard Web | Kaba | Salto

DALI EnOcean  
M-Bus DMX

Proprietary solutions

# All-in-one

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



Applications are based on open,  
world-wide standards



Continuous development and enhancement of products



Member of OPC Foundation,  
KNX Association, BACnet International,  
Modbus Organization



Participation in the development  
of standard specifications



Close cooperation with universities:  
TU Vienna, University Antwerp, University  
Dresden for knowledge transfer



EU-wide research projects allow the  
integration of new systems and technologies

Building automation  
systems are  
heterogeneous

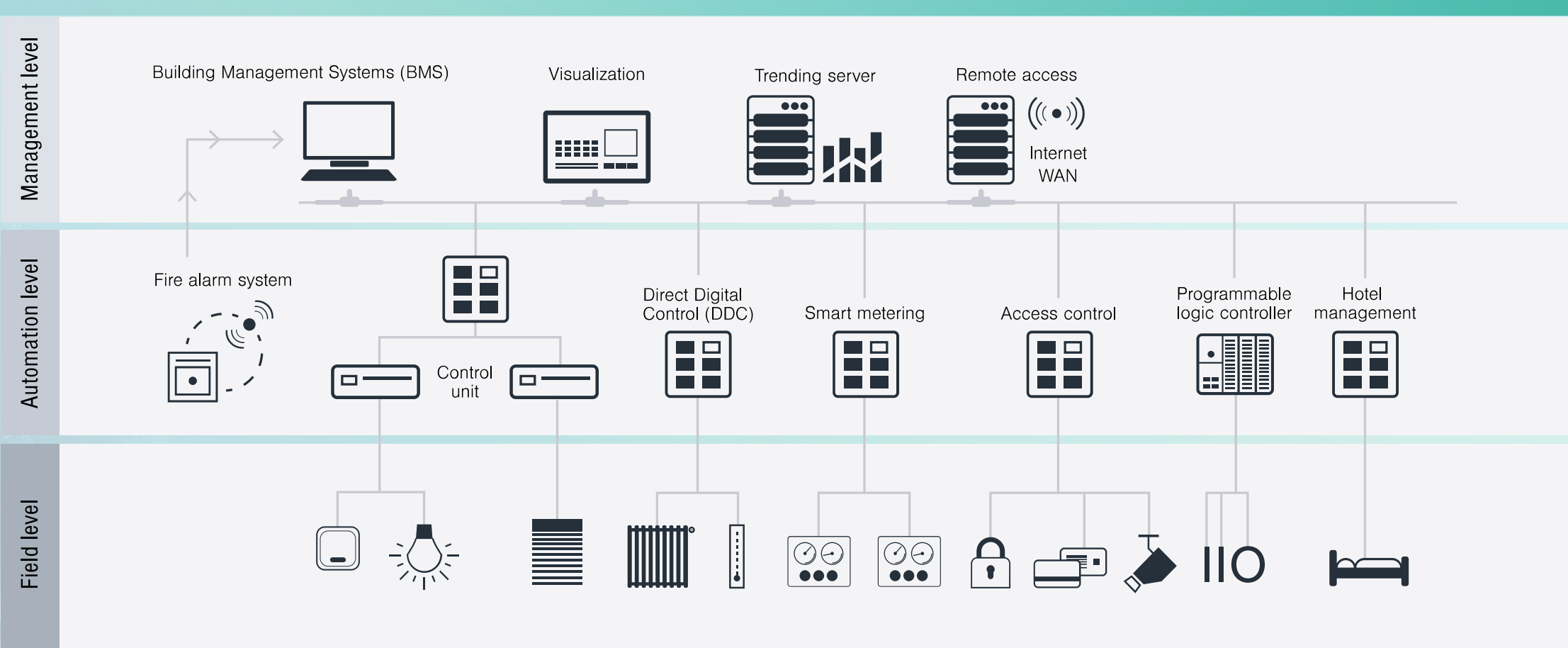


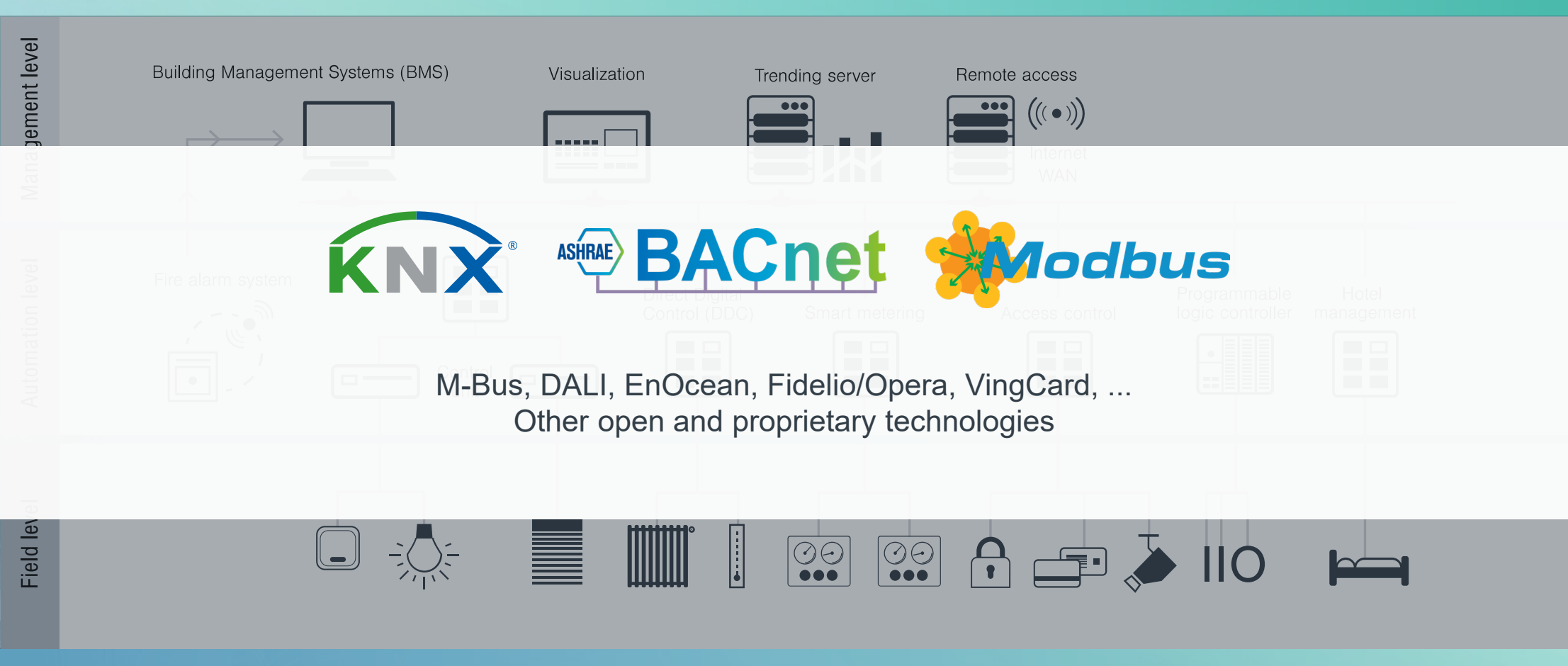
Many different  
technologies  
are used



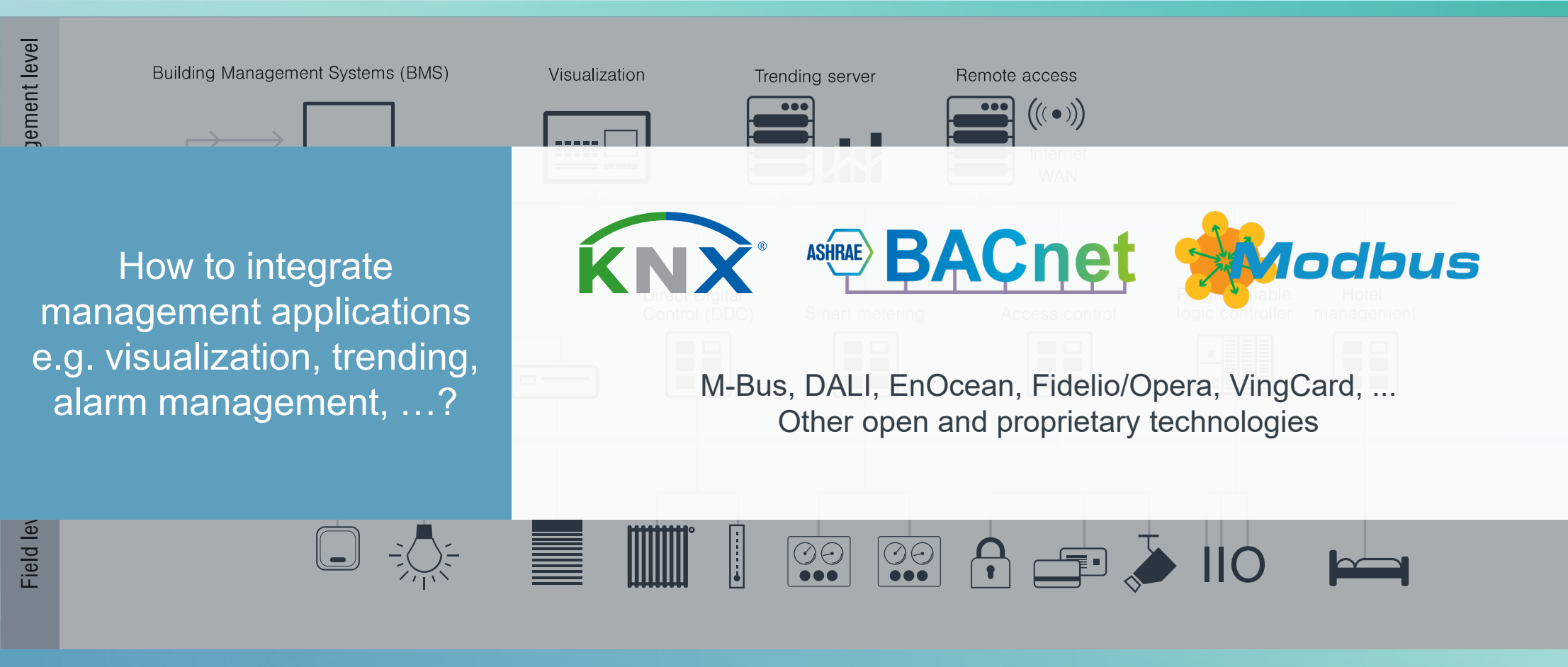
Each technology  
has its characteristics  
and its own way to  
represent and process  
control data

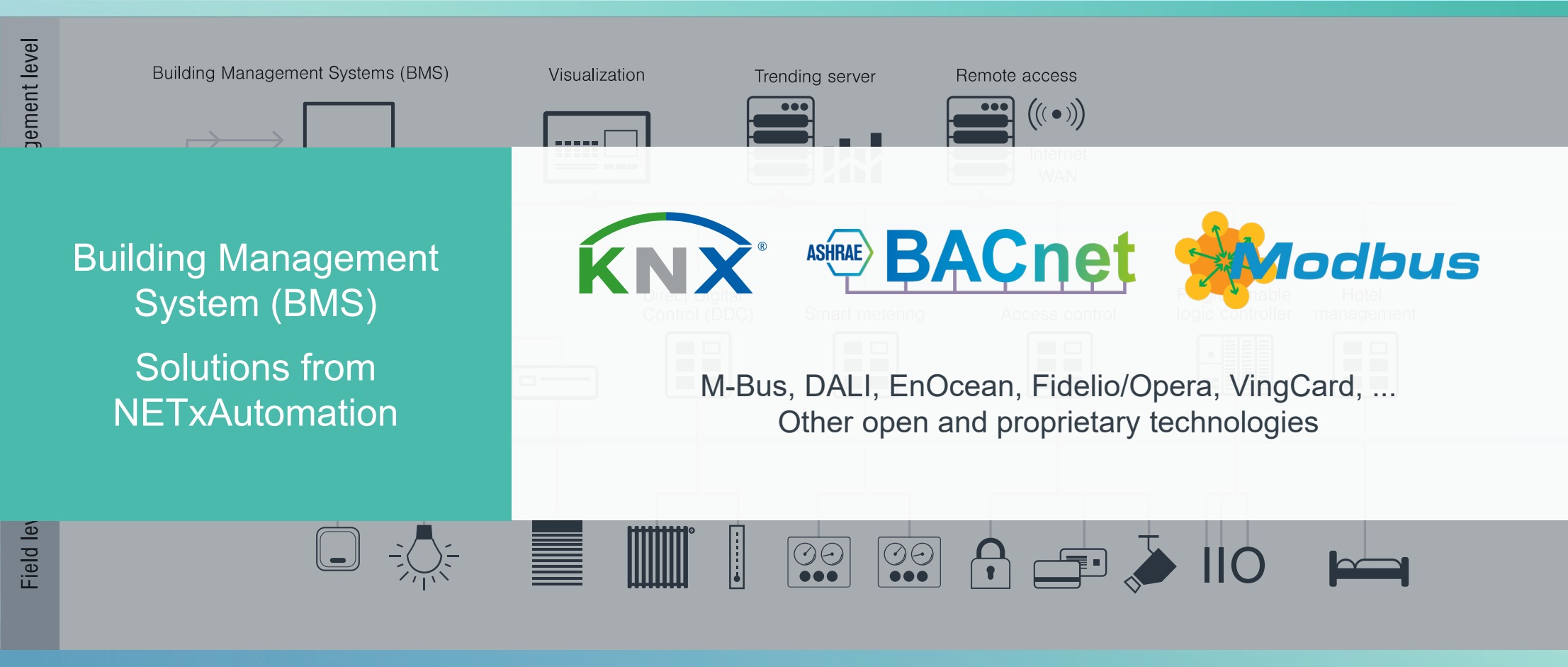




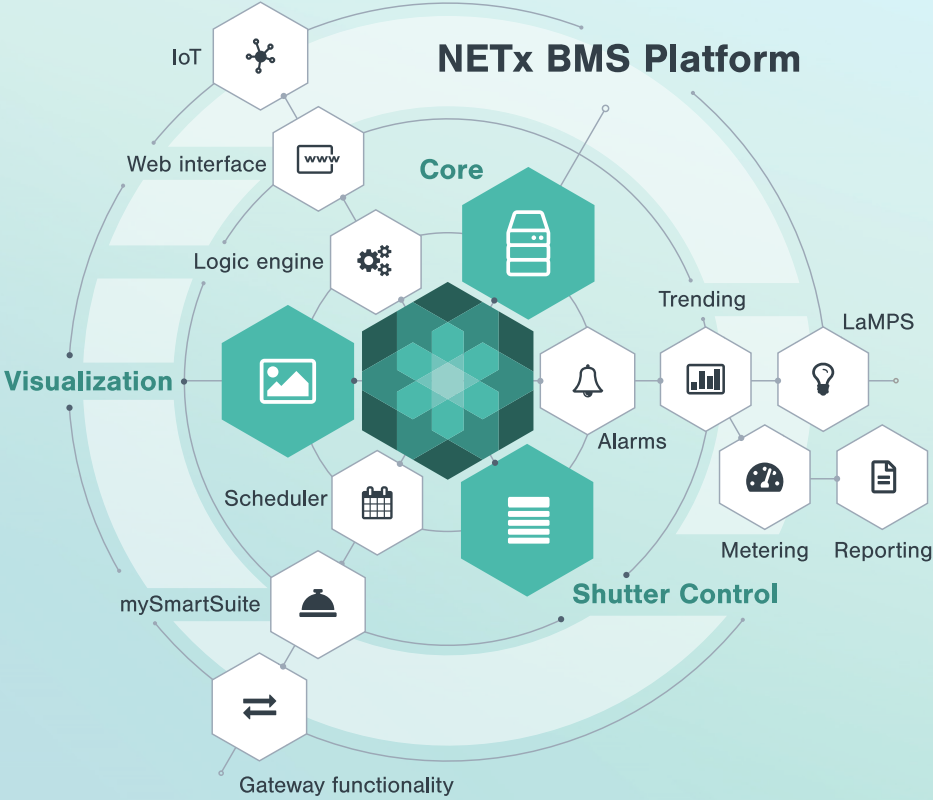


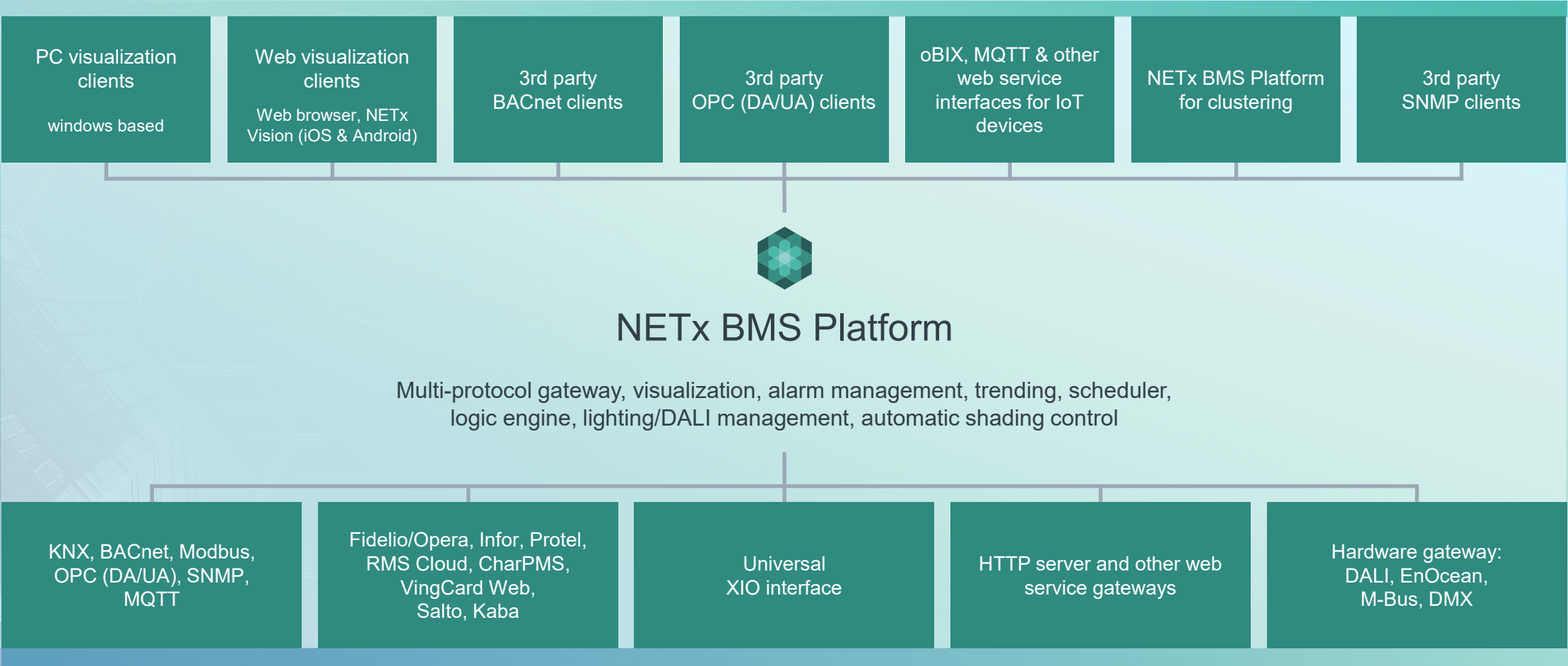




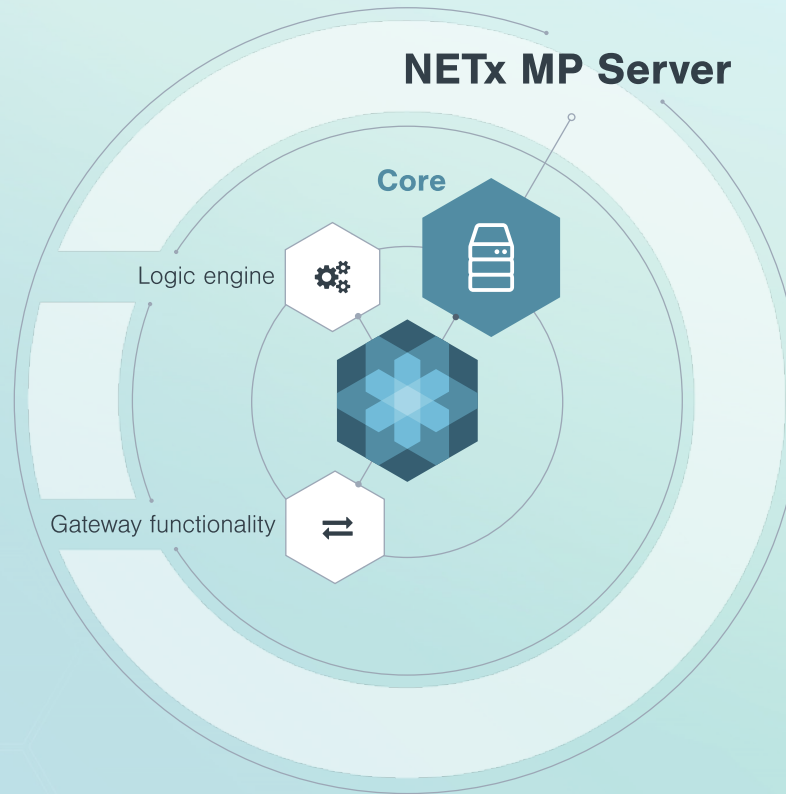








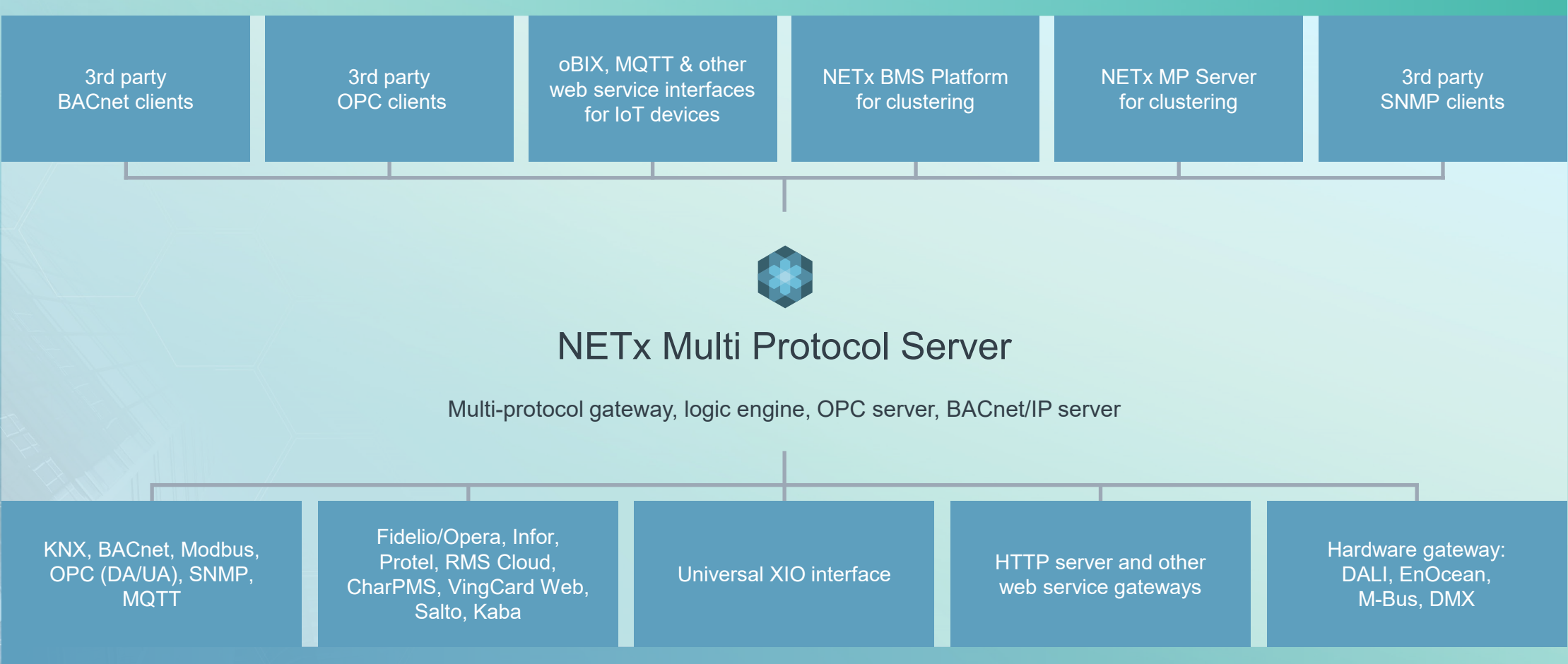
Core	Visualization	LaMPS	Shutter Control	mySmartSuite	Add-ons	
<ul style="list-style-type: none"><li>• Gateway functionality</li><li>• Alarm management</li><li>• Trending</li><li>• Reporting</li><li>• Scheduler</li><li>• Logic engine</li><li>• Metering</li><li>• GRMS</li></ul>	<ul style="list-style-type: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



Successor product  
of  
NETx KNX OPC  
Server 3.5

Upgrade from  
NETx MP Server to  
NETx BMS Platform  
possible

# NETx Multi Protocol Server





# 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 Module</b> Monitor, analyze and process data from smart meters	✓	✓	<b>mySmartSuite</b> Integrated hotel solution	✓	✗
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, Infor, Protel, RMS Cloud, CharPMS	✓	✓
<b>HTTP and web services</b> Integration of data from HTTP servers & web service gateways	✓	✓	<b>Door locking systems:</b> 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 - 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

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

Use of virtualization environments possible

VMWare, Virtualbox, Hyper-V, ...

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"> <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>NETx LaMPS</b> Fix fee + 1 data point for each DALI ballast</li> <li>• <b>NETx Shutter Control</b> Project specific fee</li> <li>• <b>NETx Metering Module</b> Fix fee + 10 data points for each measurement value</li> <li>• <b>NETx mySmartSuite</b> sufficient number of NETx visualization clients required</li> <li>• <b>and more</b></li> </ul>
Licensing process		
Hardlock	Softlock	
<b>USB Dongle</b> hardware independent	<b>Unlock code</b> dependent on hardware and operating system	

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Number of data points		Optional: additional license fees for special modules and interfaces
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## Application areas

- BMS Solution for medium-sized and enterprise building automation projects
- Integration of different sub systems and technologies in all-in-one solution



Hotels & resorts



Airports



Office buildings



Shopping malls & shops



Hospitals



Sports & event centers

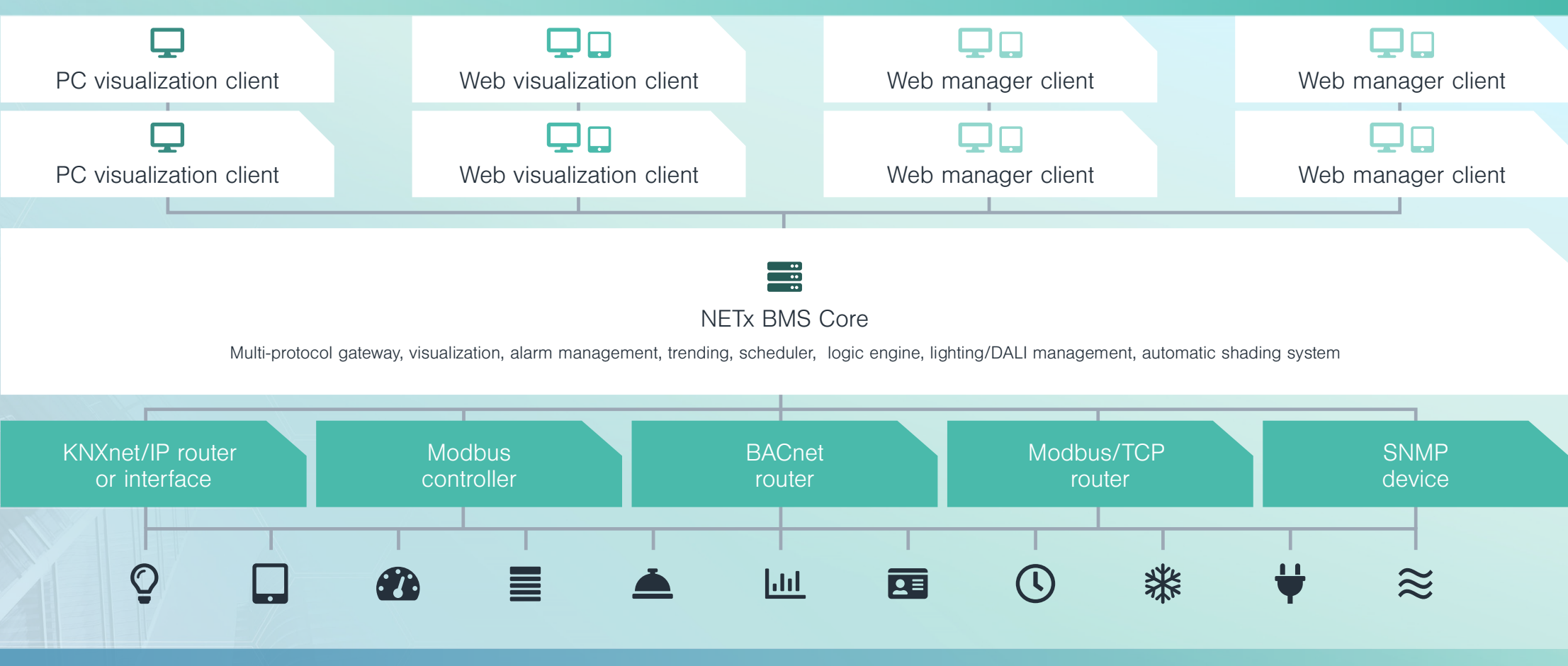


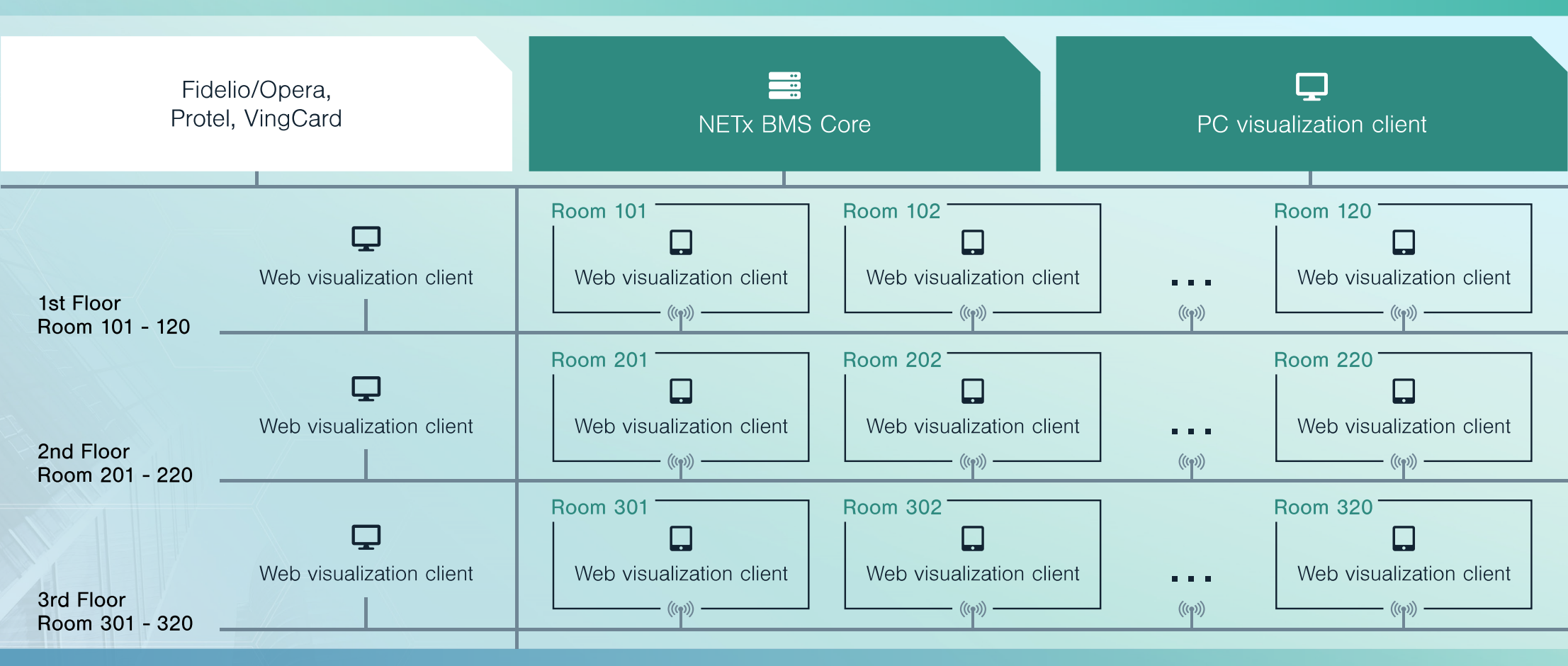
Universities & schools

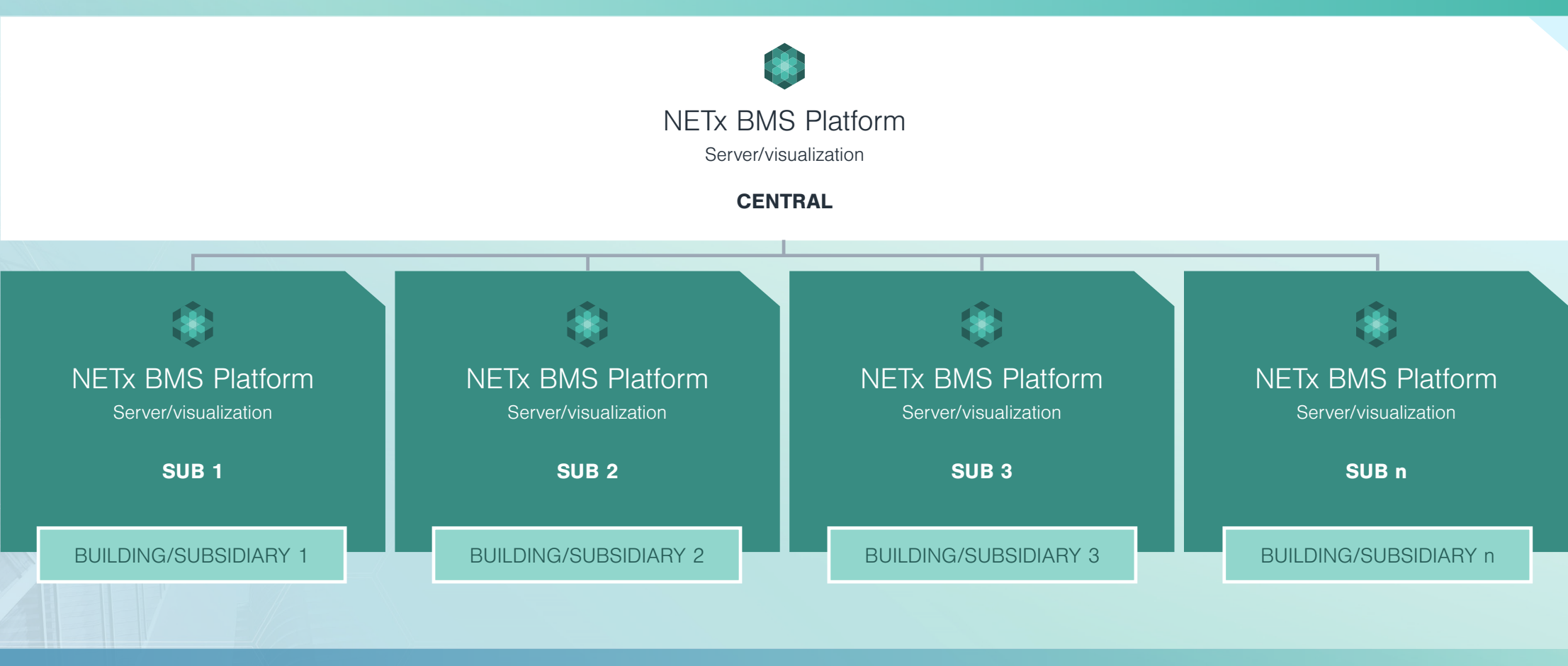


Residential buildings









# References

[www.netxautomation.com/netx/en/applications/references/](http://www.netxautomation.com/netx/en/applications/references/)

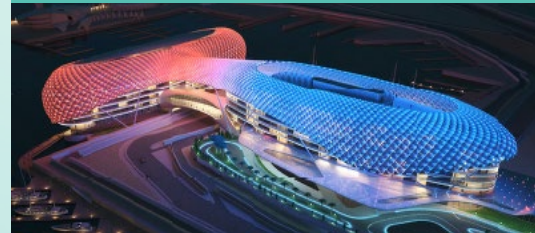
Airport Pudong  
Shanghai, China



ANZ Tower  
Australia



The Yas Hotel  
Abu-Dhabi



Samsung Central  
Seoul, South Korea



Airport Bangkok  
Thailand



PlusCity  
Austria








The Post Hotel  
Belgium



Port of Antwerp  
Belgium





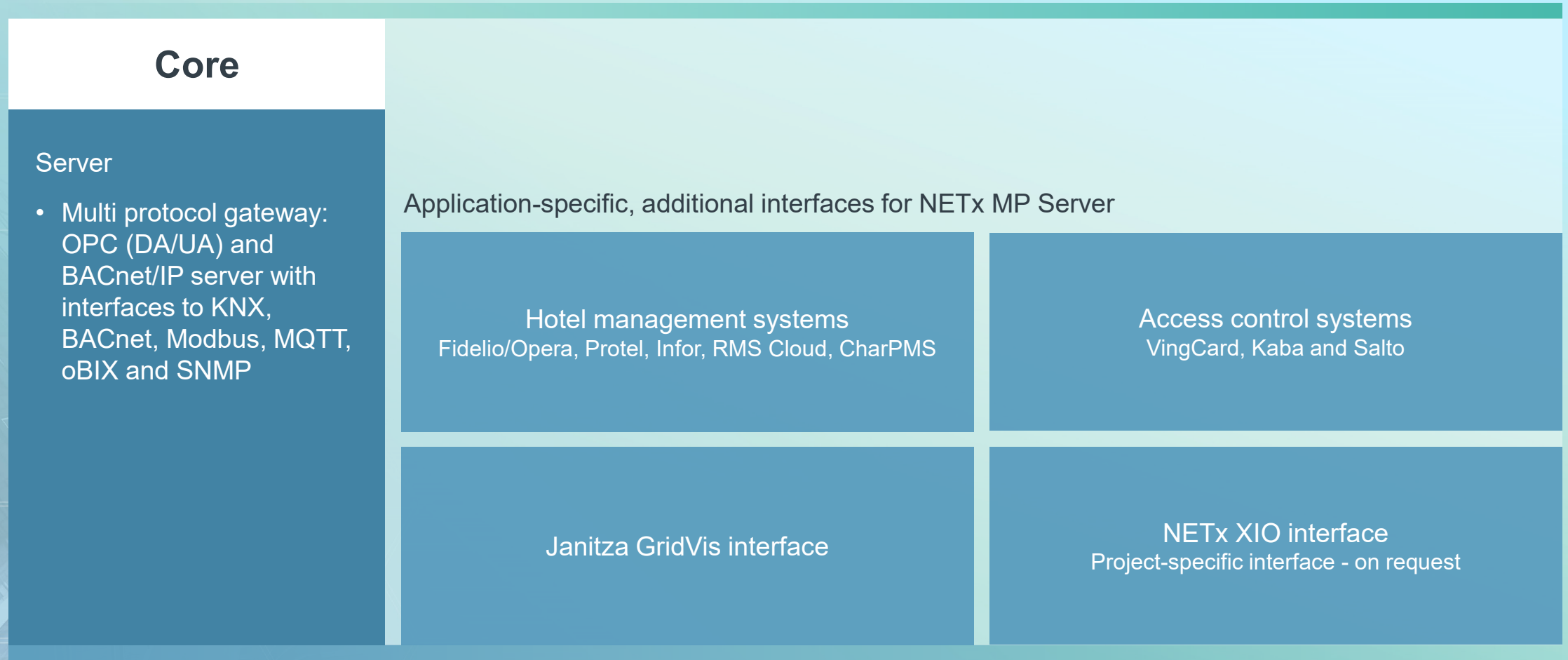
				
<b>International Award</b>	<b>International Award</b>	<b>Special Award</b>	<b>National Award</b>	<b>Energy Efficiency Award</b>
Asia	Africa, America, Australia			Asia
Princess Noura University for women	Surf Coast Shire Civic Building	Gran Melià Resort & Luxus Villas Daios Cove	HDI-Gerling Hauptverwaltung	GAMA Headquarters
Saudi Arabia	Australia	Greece	Germany	Saudi Arabia

## **Product overview**



## Product overview - NETx BMS Platform

Core	Visualization	LaMPS	Shutter Control	mySmartSuite
<b>Server</b> <ul style="list-style-type: none"><li>Multi protocol gateway: OPC (DA/UA) and BACnet/IP server with interfaces to KNX, BACnet, Modbus, oBIX, MQTT and SNMP</li><li>BMS functions, e.g. alarm management, scheduler, trending and more</li></ul>	(optional) PC based and/or web based	(optional) Lighting and DALI management	(optional) Enhanced automatic shading	(optional) Guest Room management
Application-specific, additional interfaces for NETx BMS Platform				
Hotel management systems Fidelio/Opera, Protel, Infor, RMS Cloud, CharPMS			Access control systems VingCard, Kaba and Salto	
mySmartSuite app			NETx XIO interface Project-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

[www.netxautomation.com](http://www.netxautomation.com)