

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



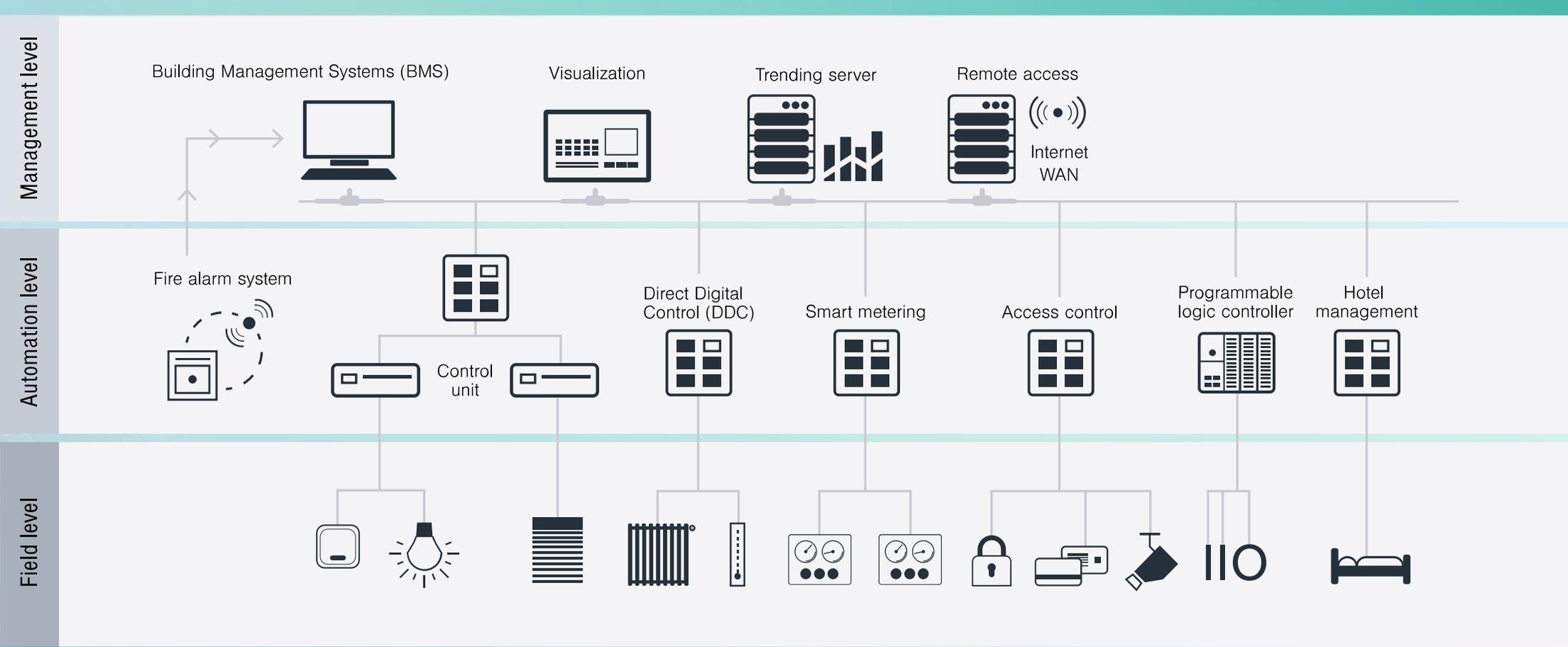
Many different technologies are used

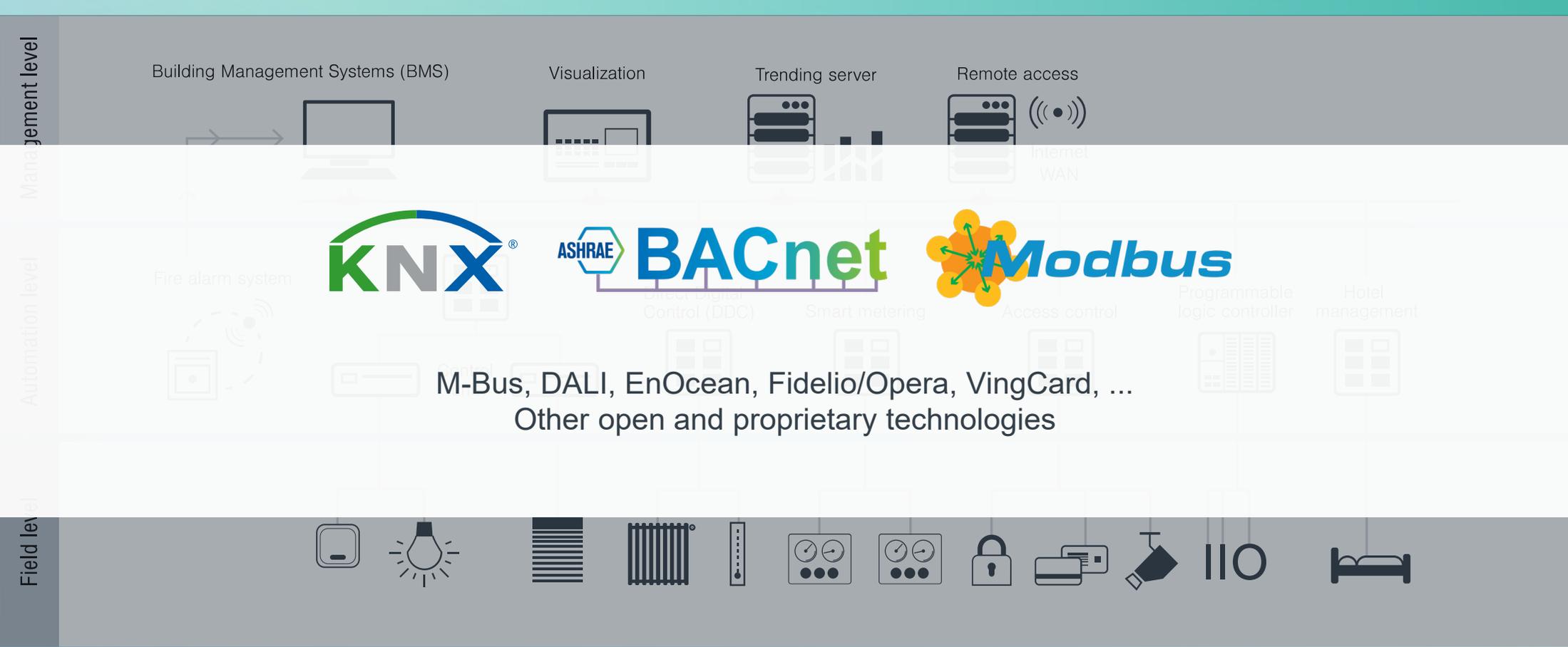


Each technology has its characteristics and its own way to represent and process control data



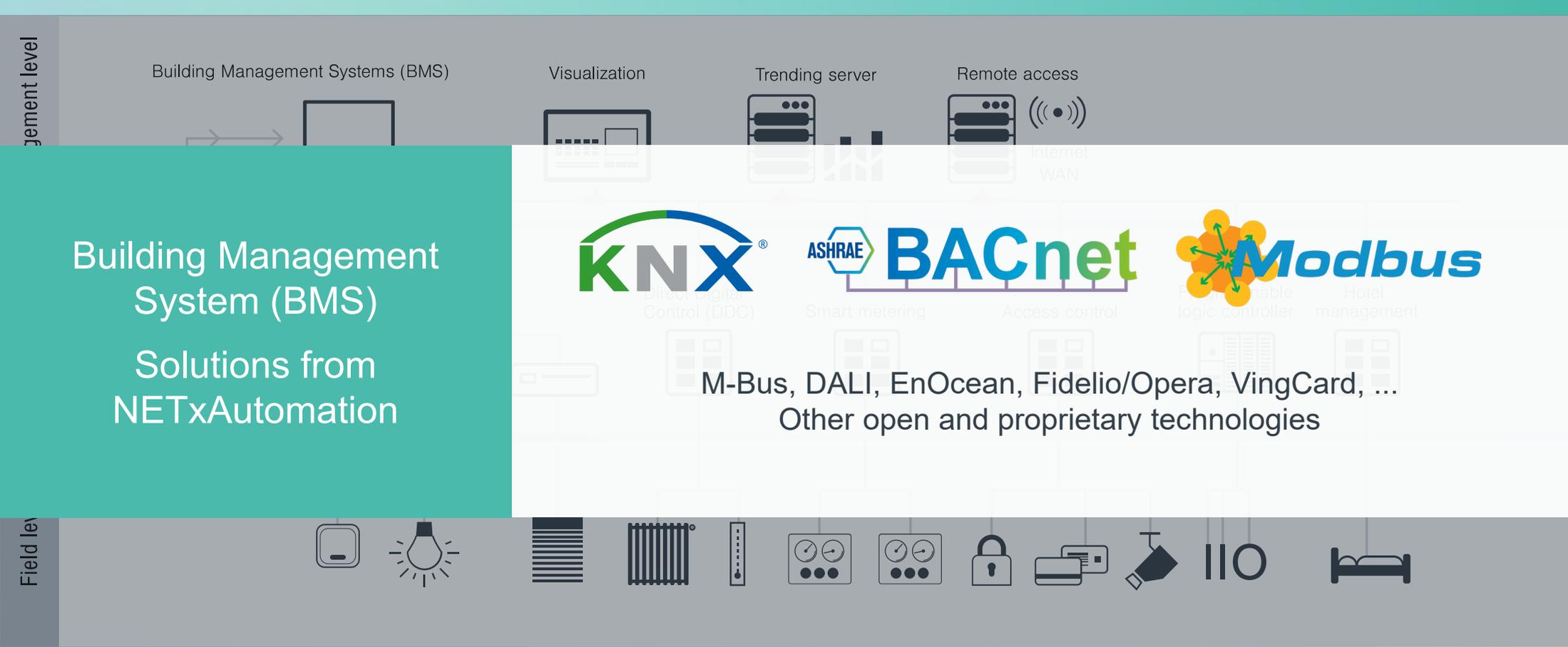
Building automation

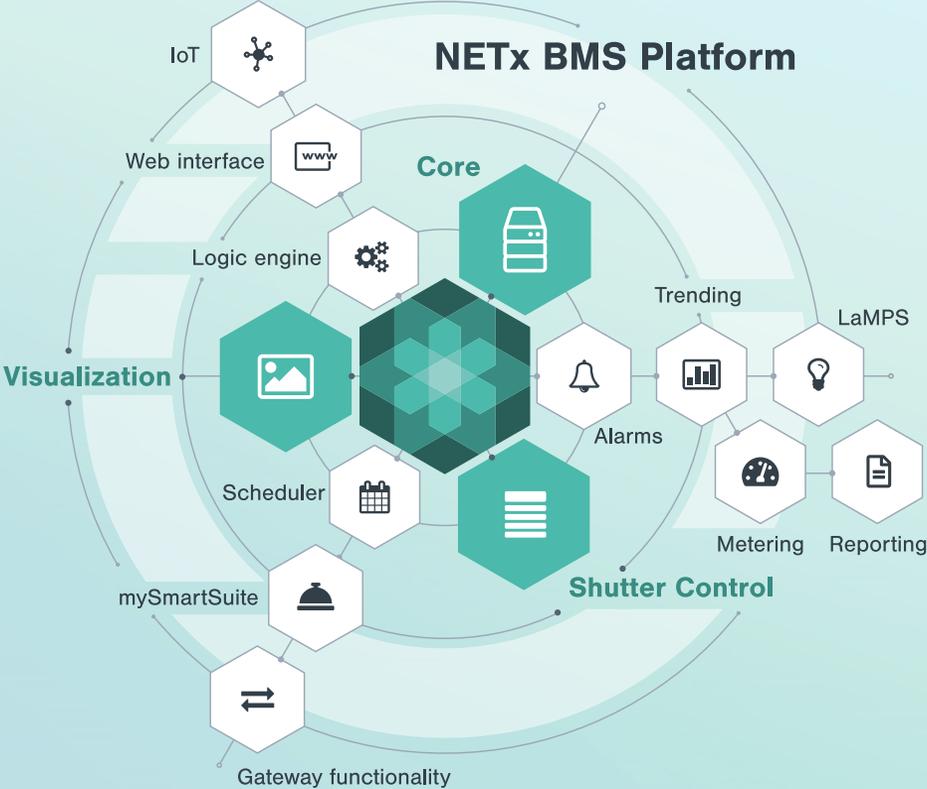


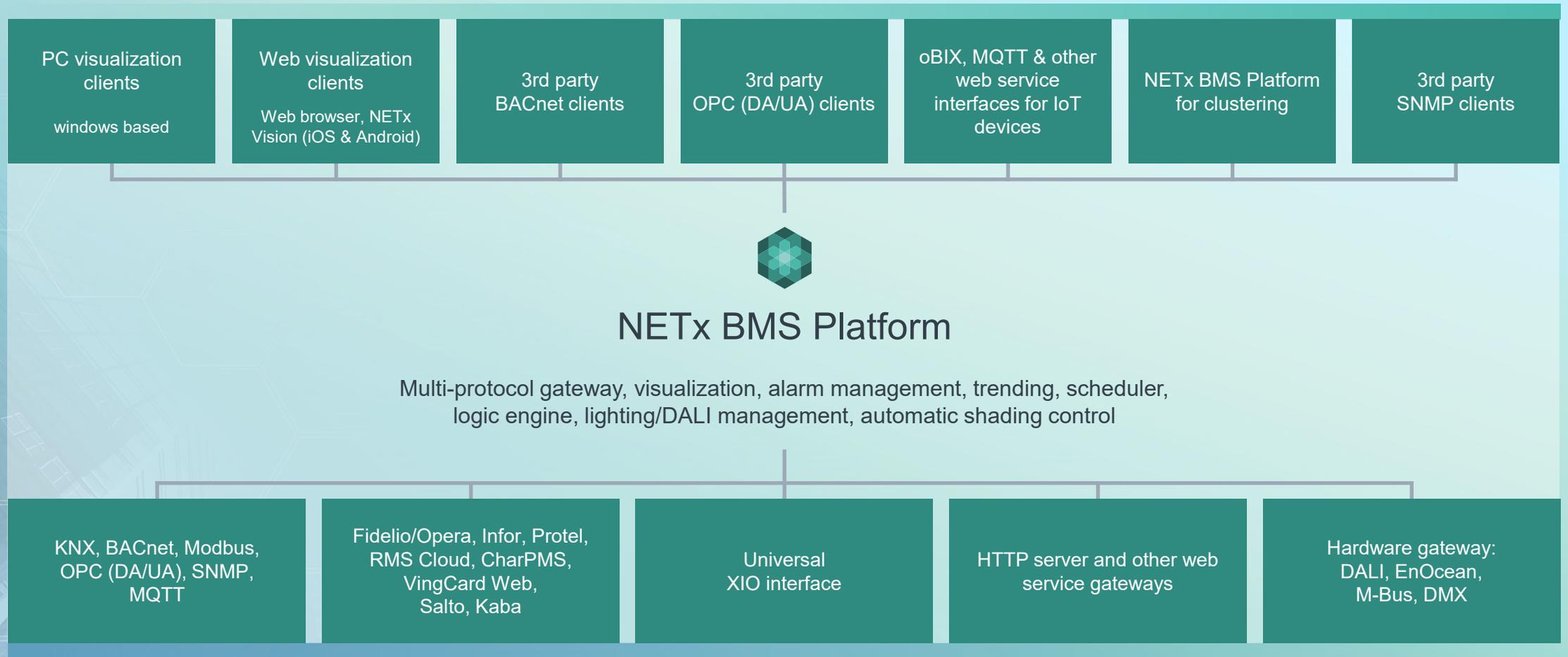




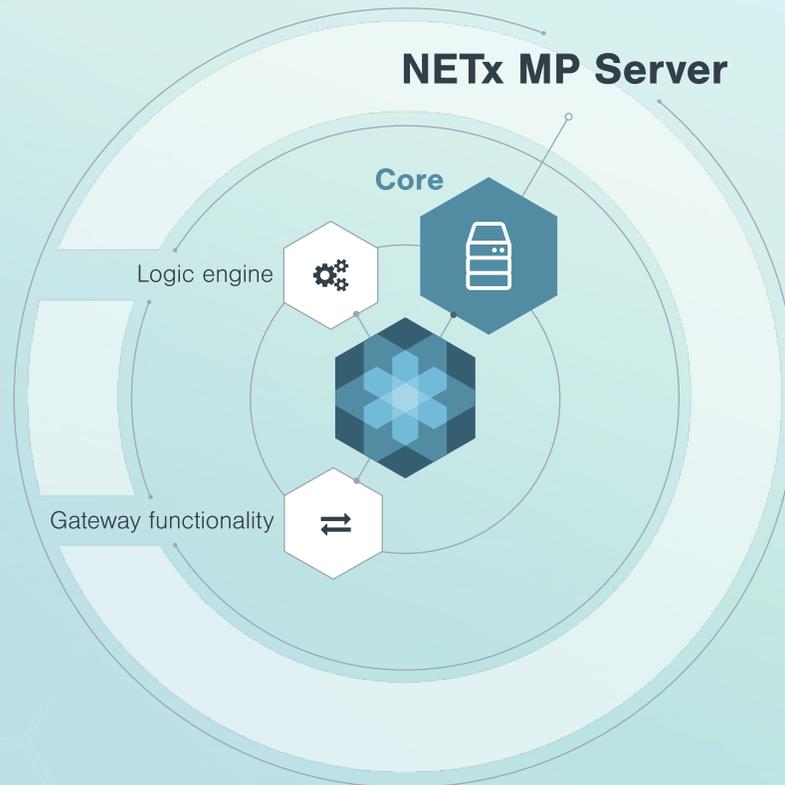
How to integrate management applications e.g. visualization, trending, alarm management, ...?





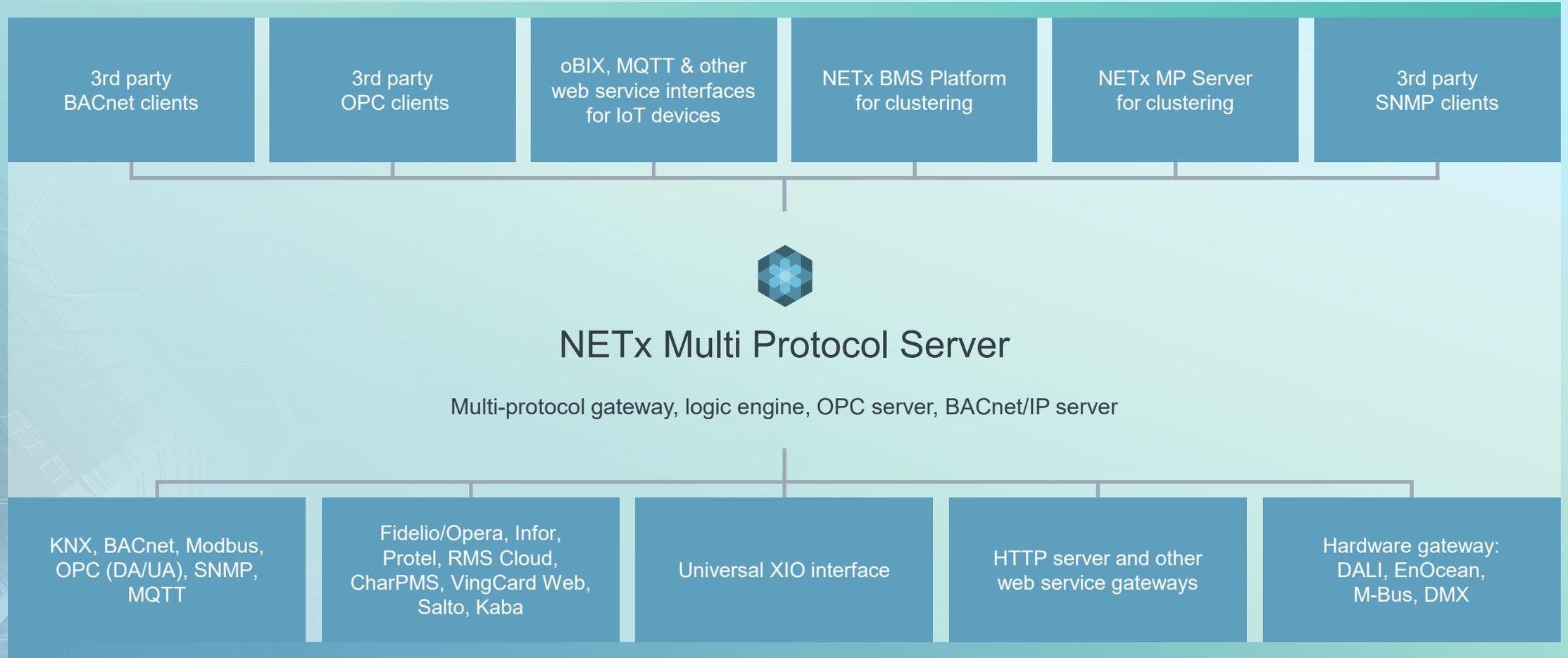


Core	Visualization	LaMPS	Shutter Control	mySmartSuite	Add-ons	
<ul style="list-style-type: none"> • Gateway functionality • Alarm management • Trending • Reporting • Scheduler • Logic engine • Metering • GRMS 	<ul style="list-style-type: none"> • Visualization for small, medium and large projects • PC 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



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
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, Infor, Protel, 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	✓	✓

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, ...

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	

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Licensing process	
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USB Dongle hardware independent	Unlock code dependent on hardware and operating system

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

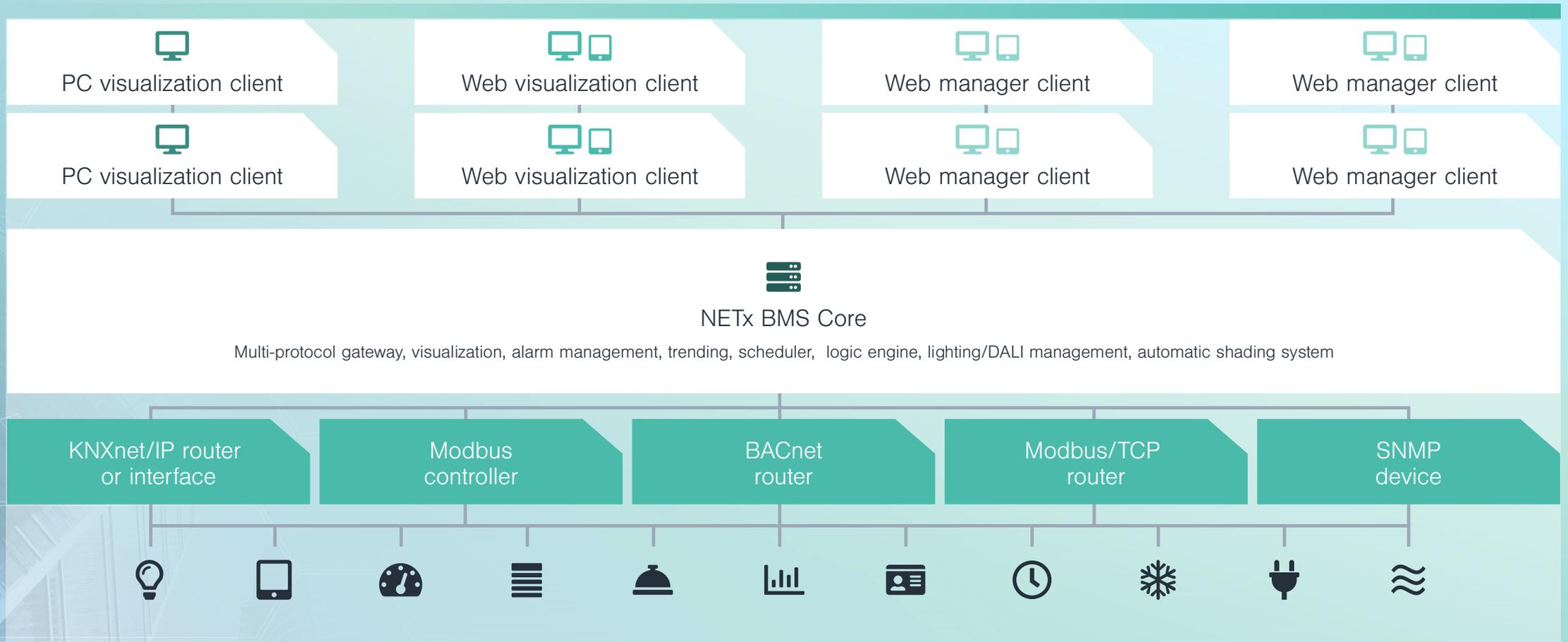


Universities & schools

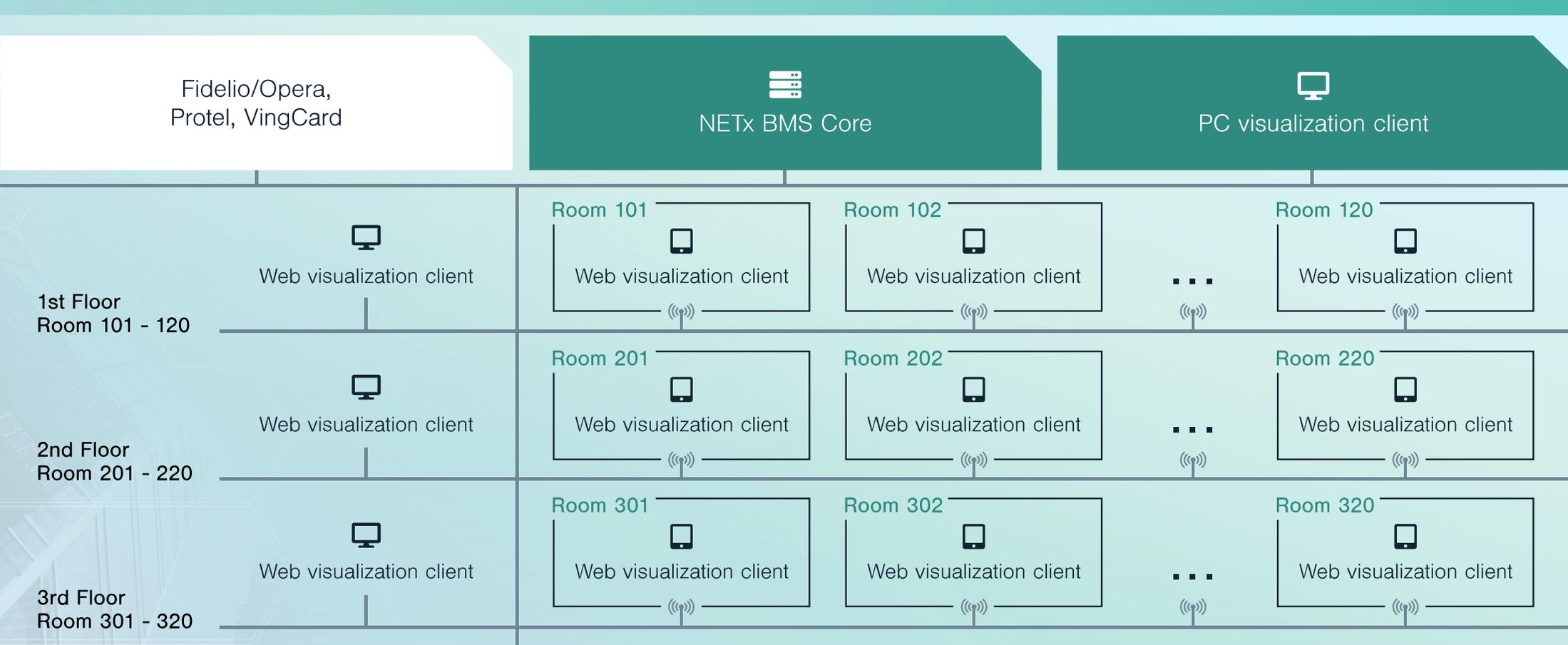


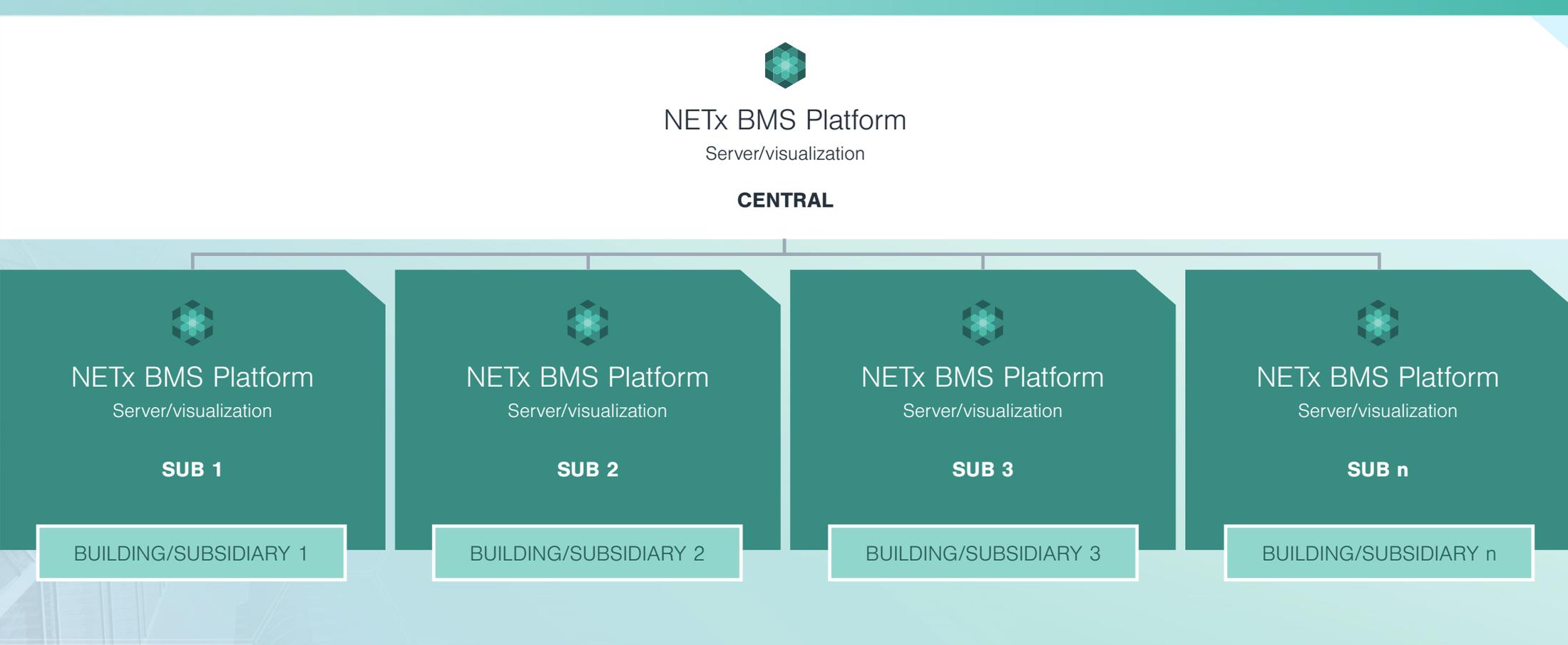
Residential buildings

Applications – office buildings



Applications – hotel





www.netxautomation.com/netx/en/applications/references/

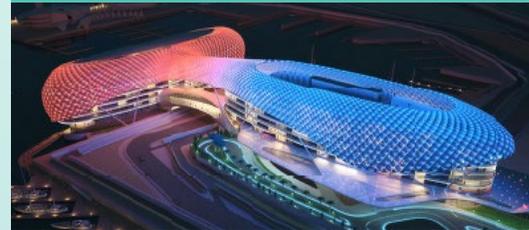
Airport Pudong
Shanghai, China



ANZ Tower
Australia



The Yas Hotel
Abu-Dhabi



Samsung Central
Seoul, South Korea



Airport Bangkok
Thailand



PlusCity
Austria



The Post Hotel
Belgium



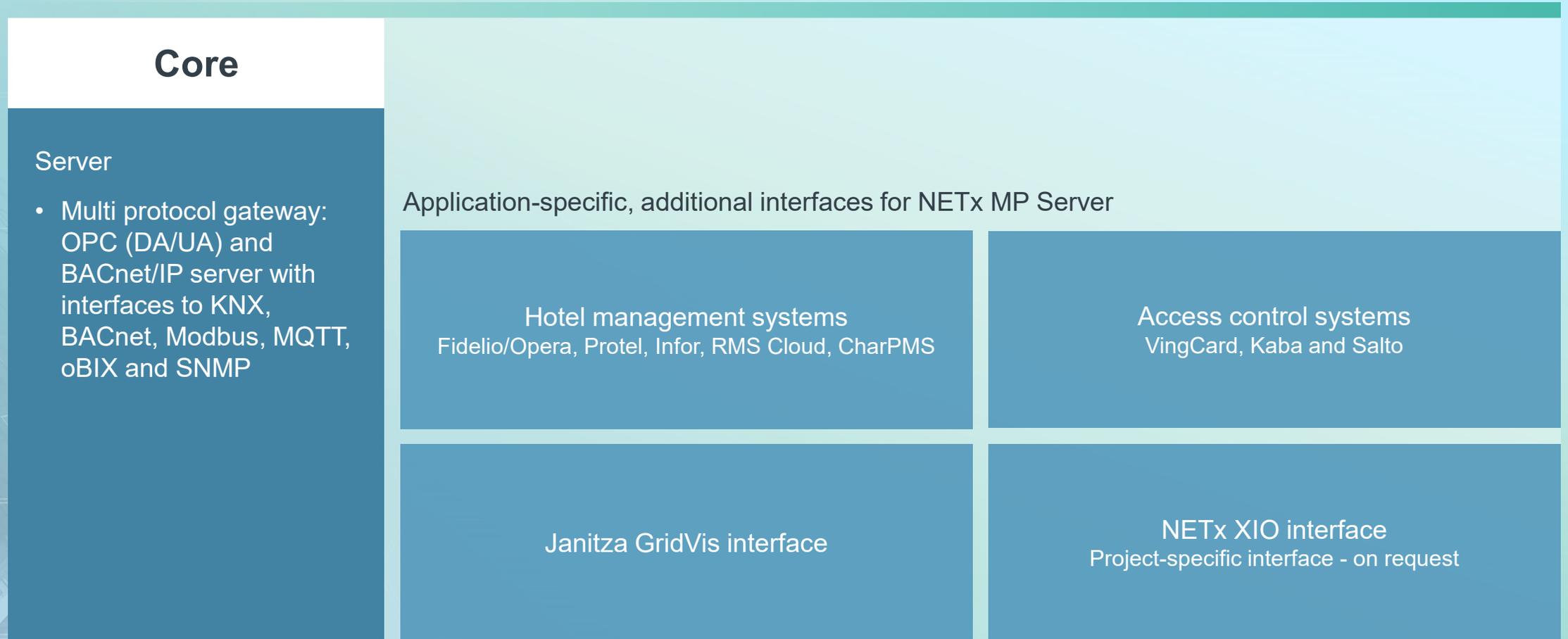
Port of Antwerp
Belgium

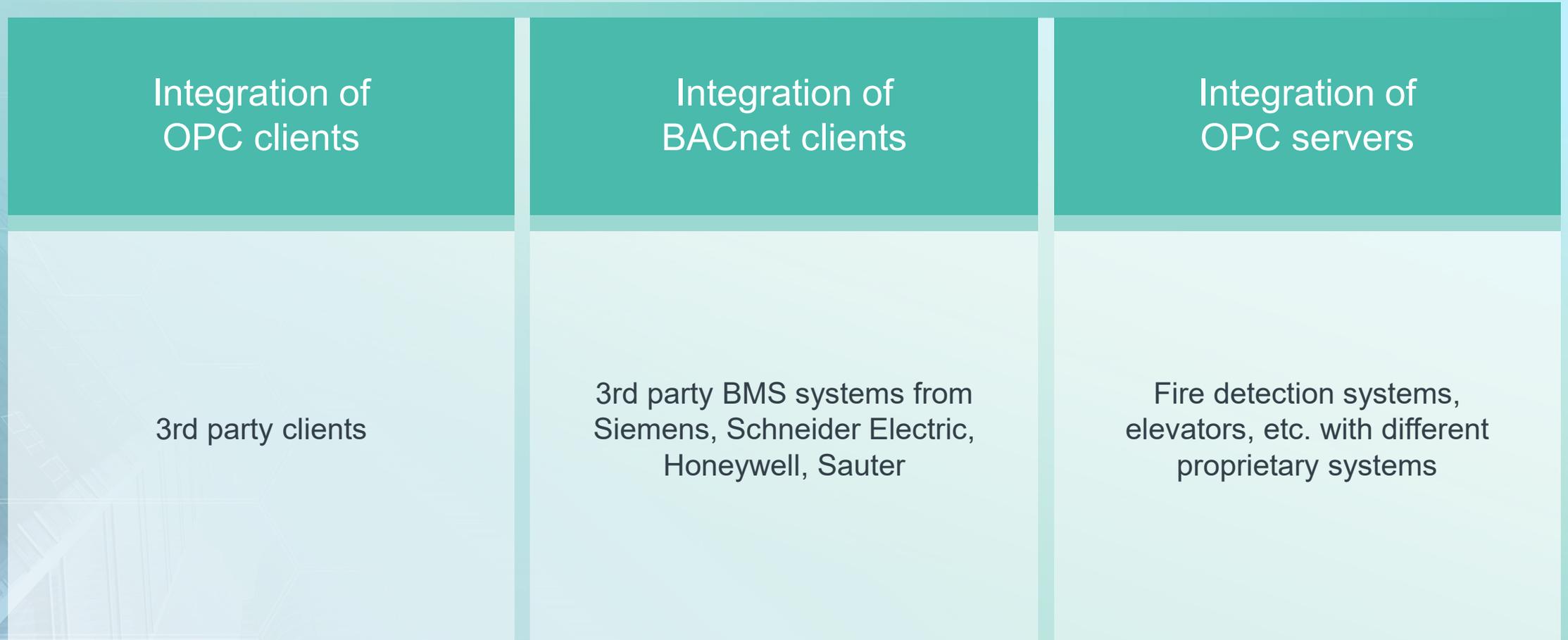


				
International Award	International Award	Special Award	National Award	Energy Efficiency Award
Asia	Africa, America, Australia			Asia
Princess Noura University for women	Surf Coast Shire Civic Building	Gran Melià Resort & Luxus Villas Daios Cove	HDI-Gerling Hauptverwaltung	GAMA Headquarters
Saudi Arabia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

Product overview

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





www.netxautomation.com