

KNX

BACnet

MQTT

Modbus

Helvar

OPC (DA/UA)

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

DALI EnOcean M-Bus DMX

Proprietary solutions

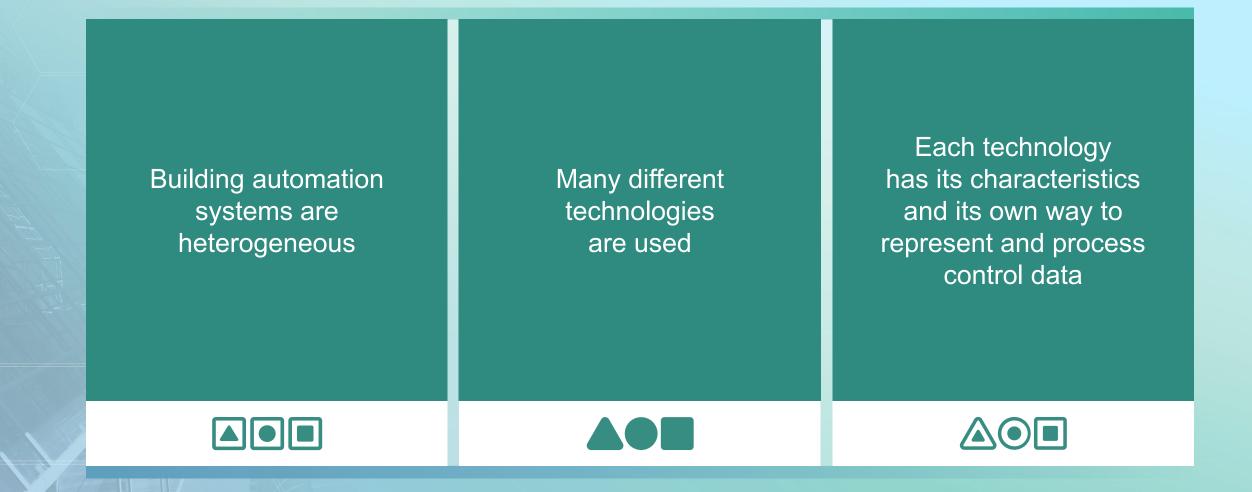
All-in-one

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

NETx BMS Platform

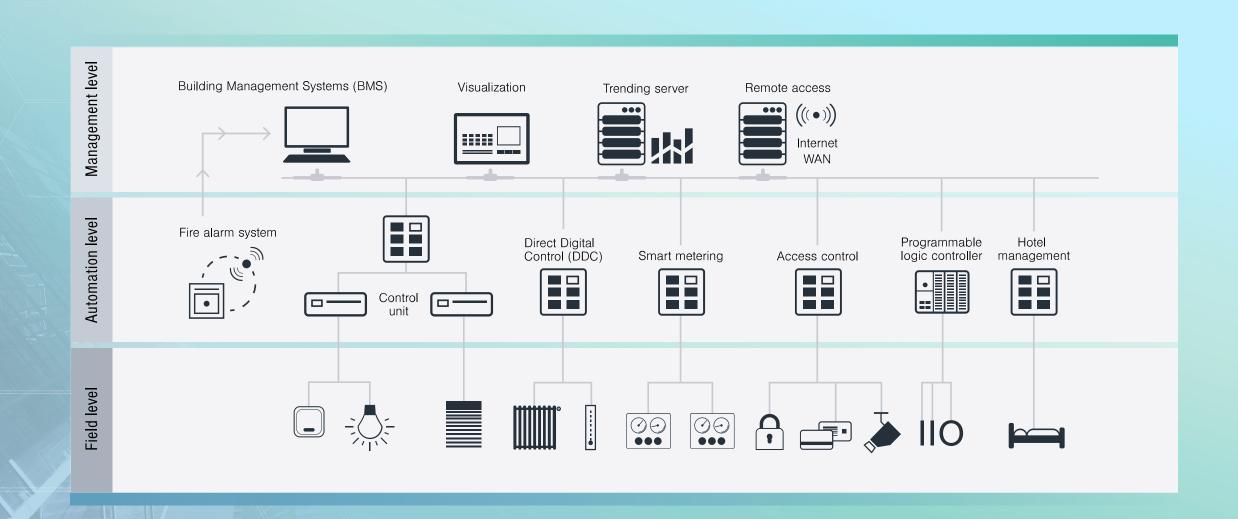
Motivation





Building automation





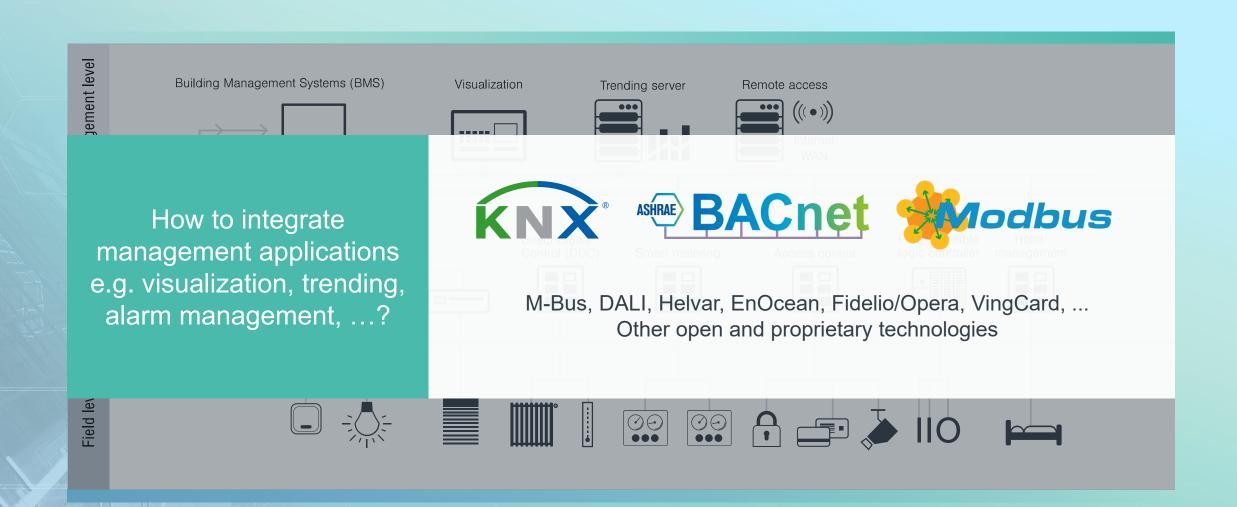
Building automation





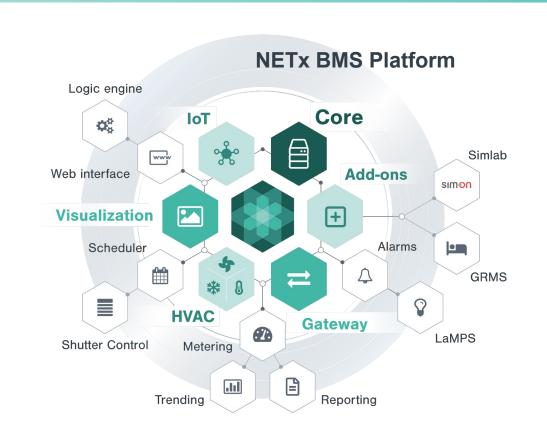
Building automation





NETx BMS Platform





Software solution for building management



Multi-protocol gateway	Providing building management functions	User management		
Support for different systems and technologies	Alarm management, trending, scheduling, logic engine, reporting, metering, energy management	Central user management with different backends (e.g. AD authentication)		
Visualization	Web interface	Add-ons		
Web and PC based visualization clients	Managing BMS functions	KNX/DALI management, automatic shading control		

System requirements



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, ...

Licensing



License

Number of data points

Integrated data points from field level like KNX group addresses, BACnet objects, Modbus registers, SNMP data points, ...

Licensing process

Hardlock

USB Dongle hardware independent

Number of visualization clients

Web and/or PC based clients

Softlock

Unlock code dependent on hardware and operating system

Optional: additional license fees for special modules and interfaces

- 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 sufficent number of NETx visualization clients required
- · and more

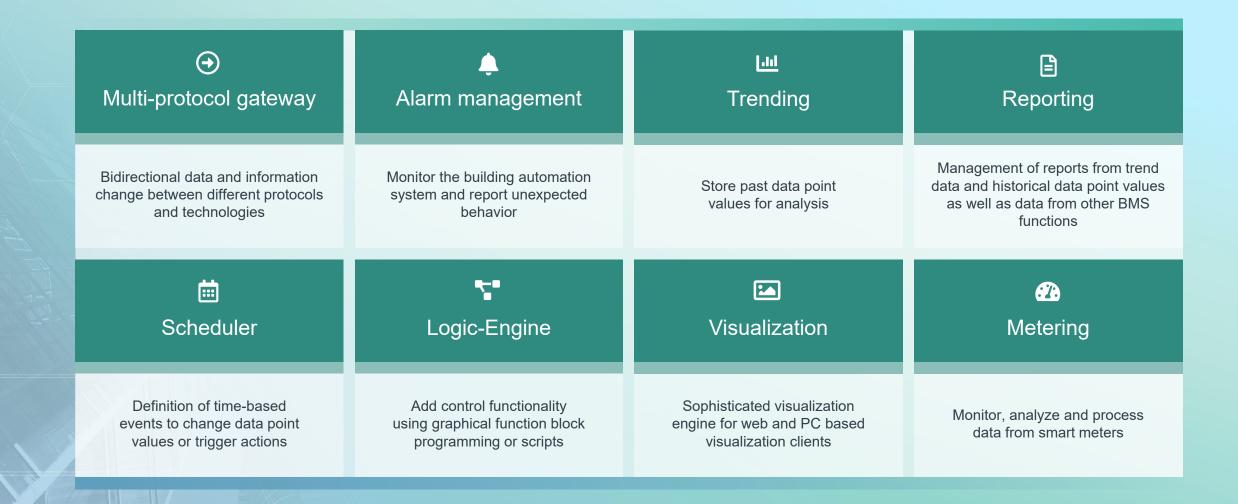
Components



Core	Visualization	LaMPS	Shutter Control	mySmartSuite	Add-ons
 Gateway functionality Alarm management Trending Reporting Scheduler Logic engine Metering GRMS 	 Visualization for small, medium and large projects PC and web-based clients Any number of clients possible 	 Lighting management DALI management 	 Automatic shading system Complex buildings Inclusion of weather data 3D design and simulation Add-on for BMS Server 	 Overview of all rooms Guest information Check in and check out information Room status Message processing 	Functions
Web interface • Alarm management • Trending • Scheduler • Explorer • Actions & Conditions	Web interface • Visualization	Web interface • LaMPS app	Web interface • Shutter Control app	Web interface • mySmartSuite app	Web Manager apps
BACnet Modbus OPC (DA/UA)	idelio/Opera • VingCard ifor • Salto rotel • Kaba MS Cloud charPMS	 Universal XIO interface HTTP Server and other web service gateways 	 3rd party BACnet, oBIX, MQTT and OPC (DA/UA) clients 3rd party web service clients 	Hardware gateways: Dali EnOcean M-Bus DMX	Interfaces

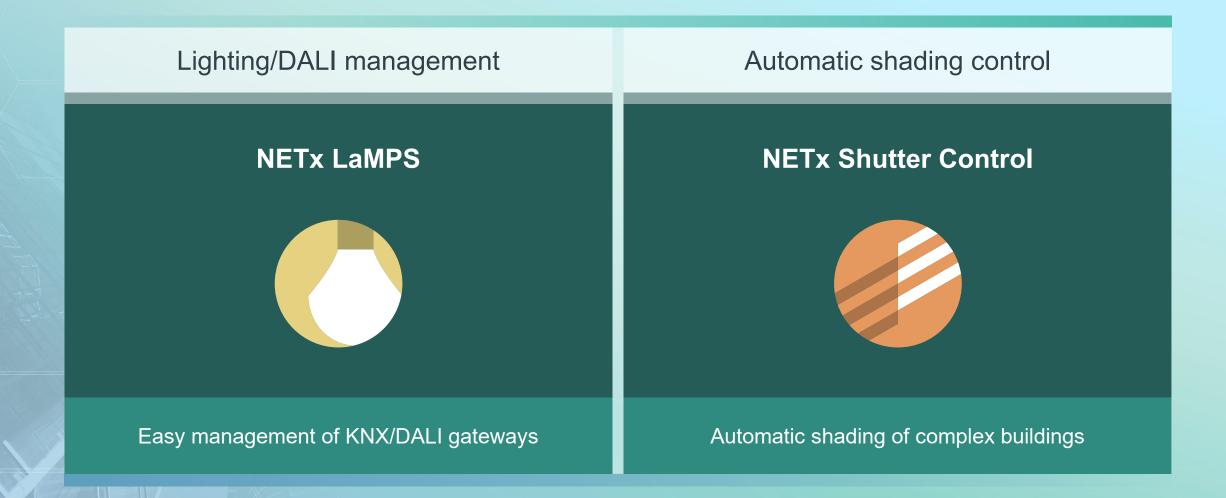
BMS functions





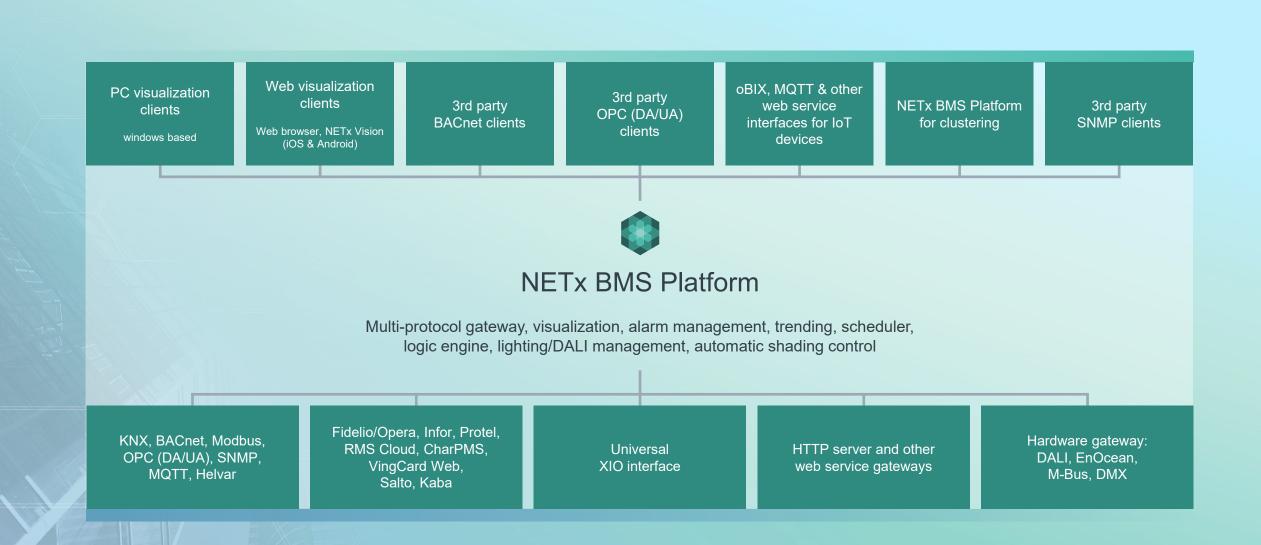
Enhances features





NETx BMS Platform





Interfaces to field level



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

Interfaces to management level



OPC	BACnet	oBIX and other Web Service interfaces for IoT	
OPC DA and OPC UA	BACnet/IP server	oBIX and KNX Web Services	
MQTT	Web interface	VNET	
Communication to one or more MQTT brokers	Web Manager and Web Visualization	Secure connection to PC based visualization	

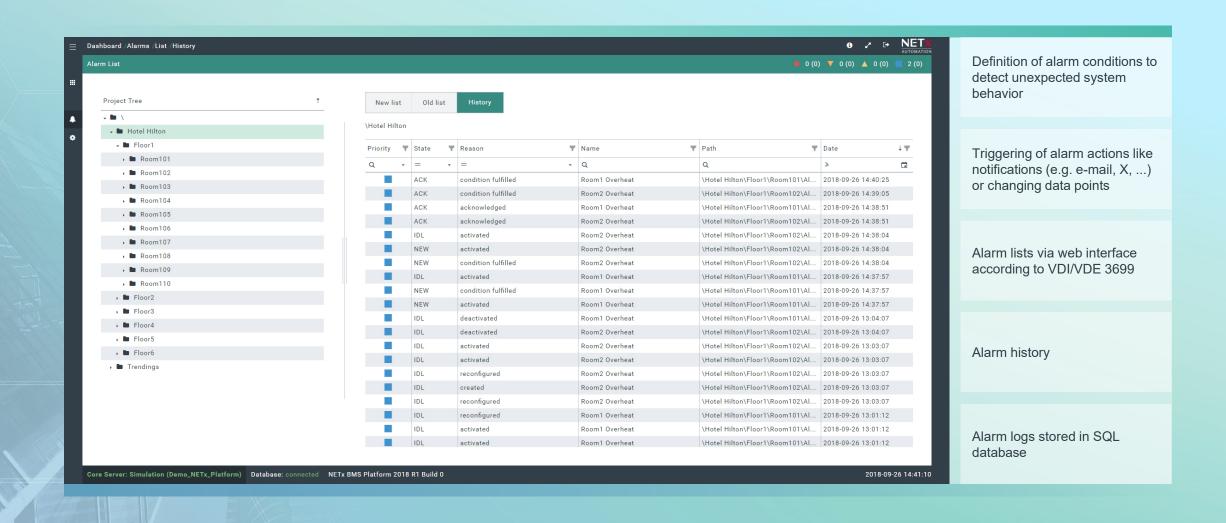
Integration of 3rd party systems



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

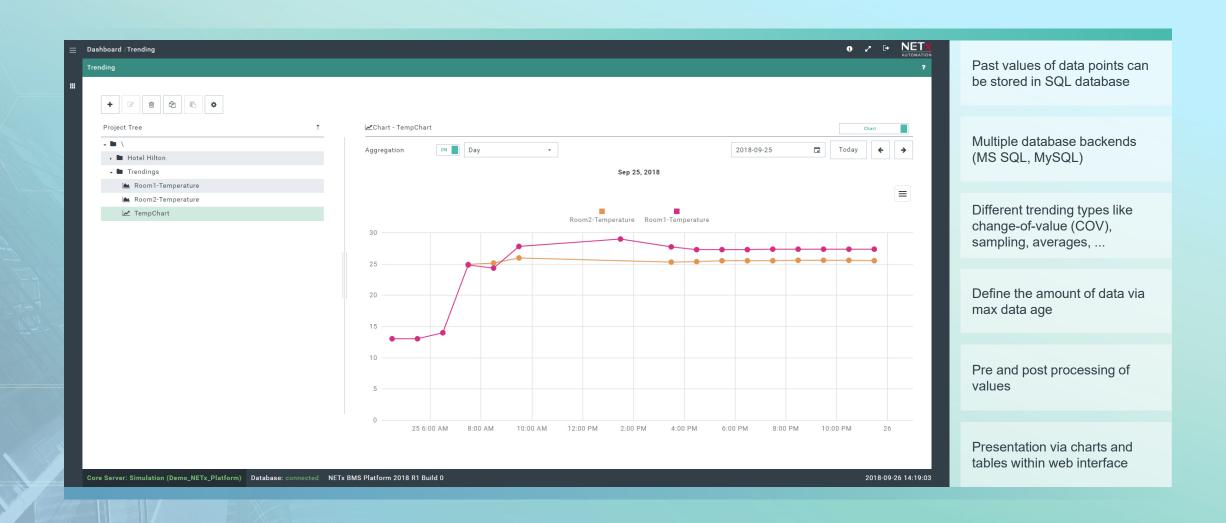
Alarm management





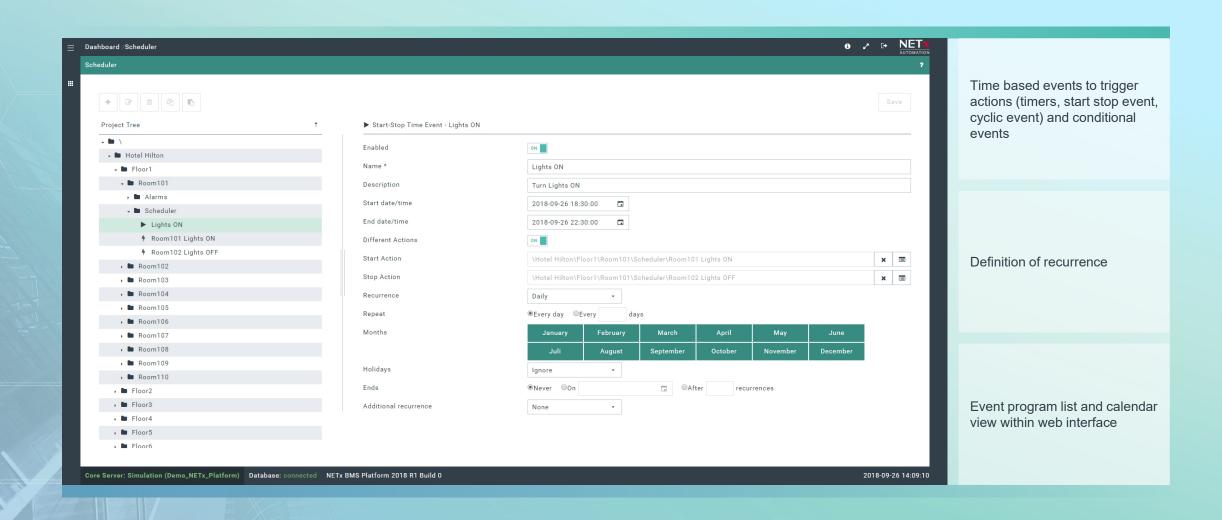
Trending





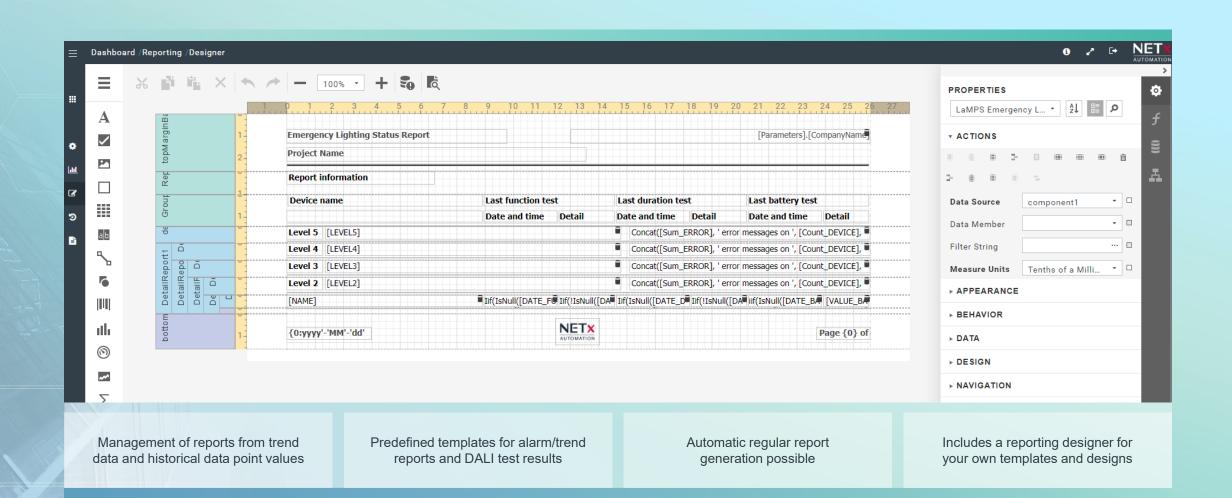
Scheduler





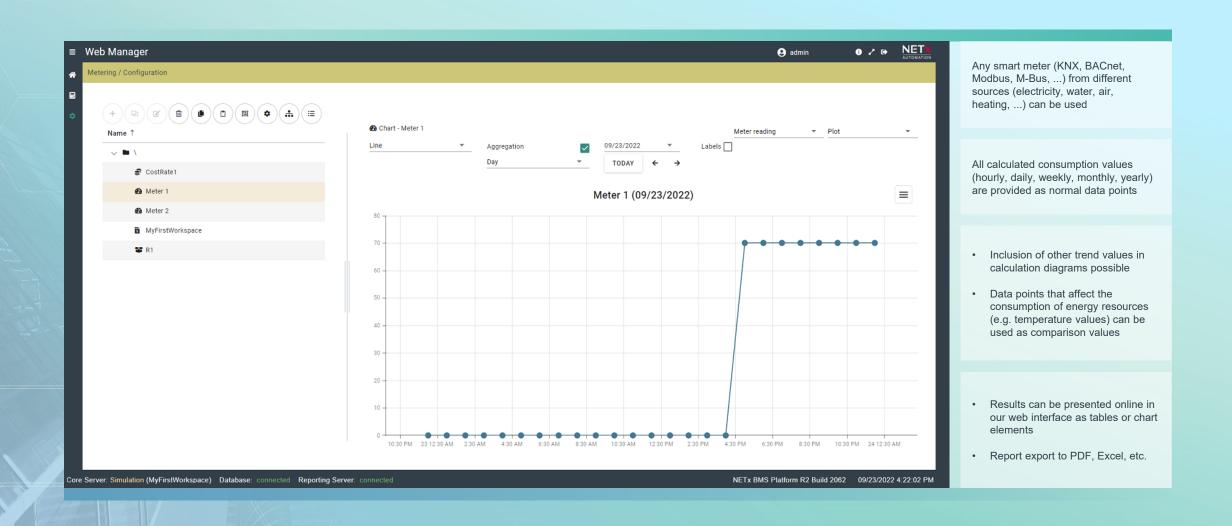
Reporting





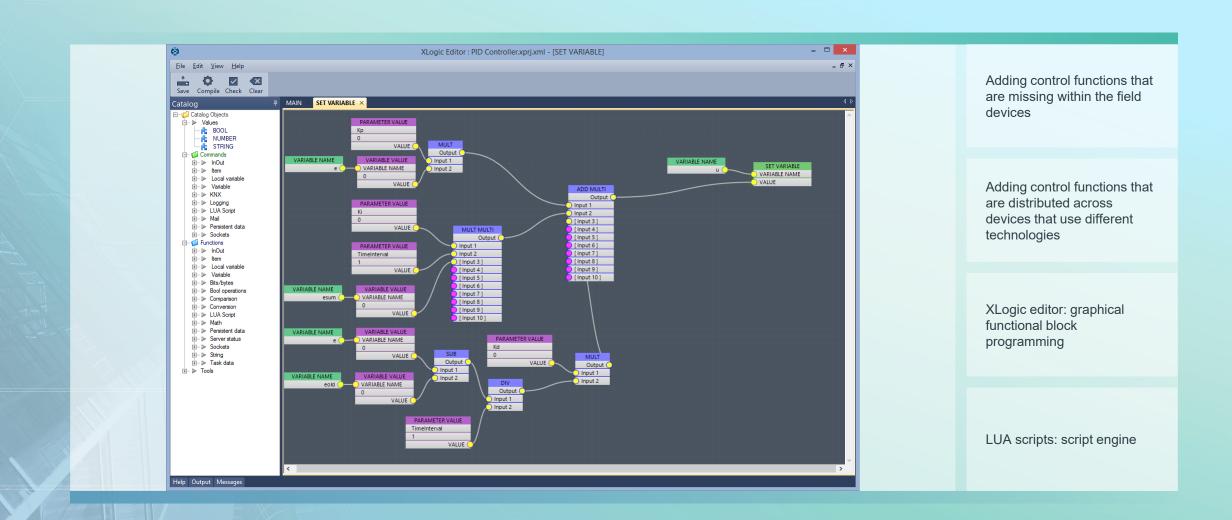
Metering





Logic engine





Visualization - features



Versatile

- Web and/or PC based visualization clients can be used
- No difference between web and PC based visualization

Unlimited

- No limit on the number of used graphical elements and pages
- Licensing is done via BMS Platform

Scalable

- Fast creation of large visualization projects
- Enhanced concepts like variables and templates

Customizable

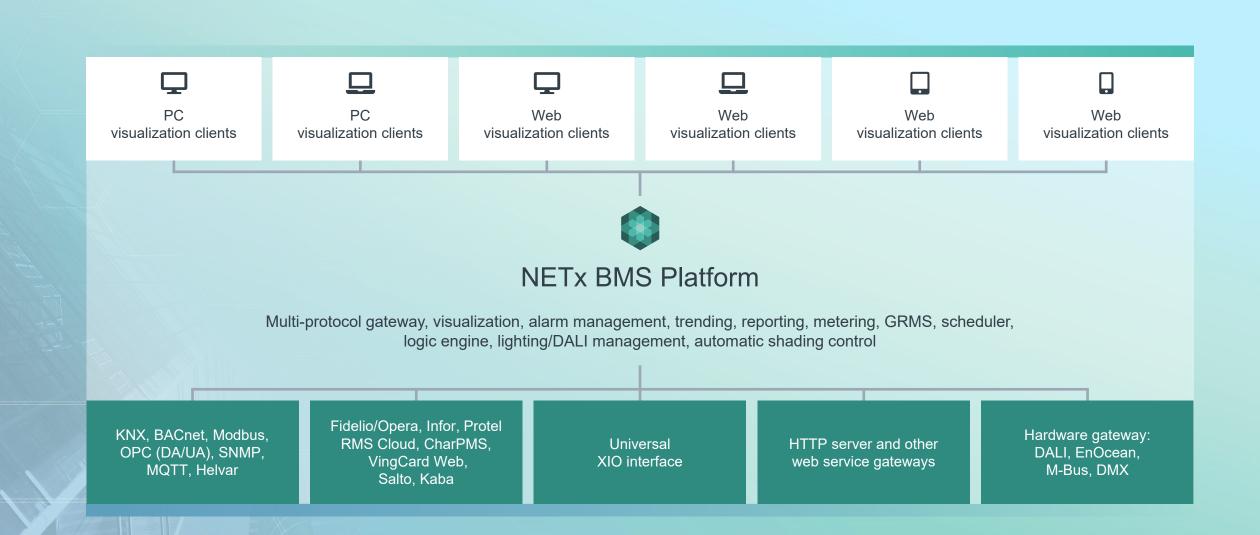
- · User-defined look and file
- Enhanced elements like multi-state elements, vector graphic and web-based content

Ubiquitous

- Independent of used technology and protocols
- KNX, BACnet, Modbus, SNMP, ... in one single visualization

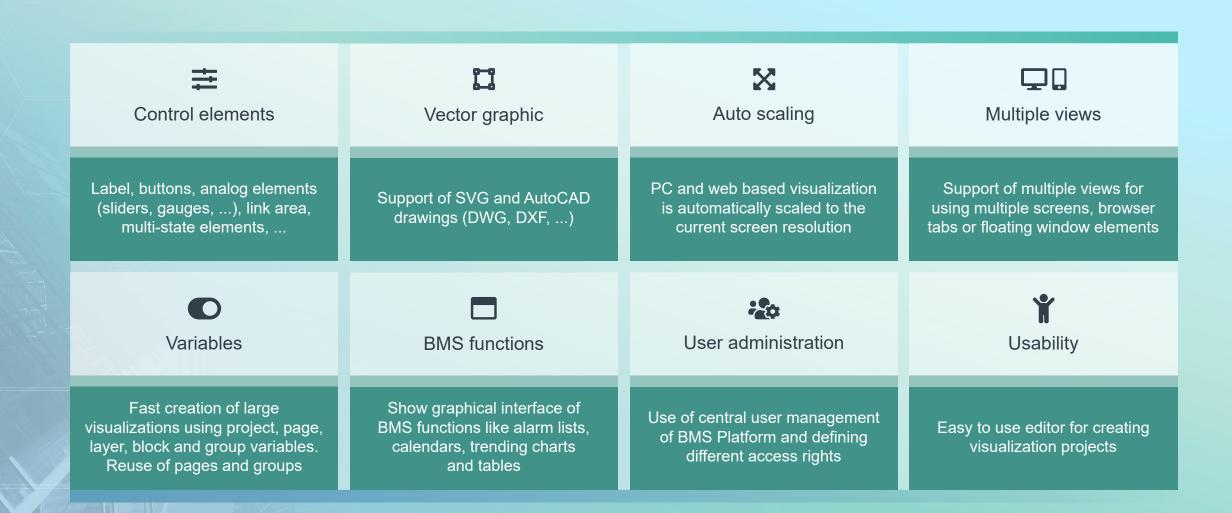
Visualization - architecture





Visualization – functions





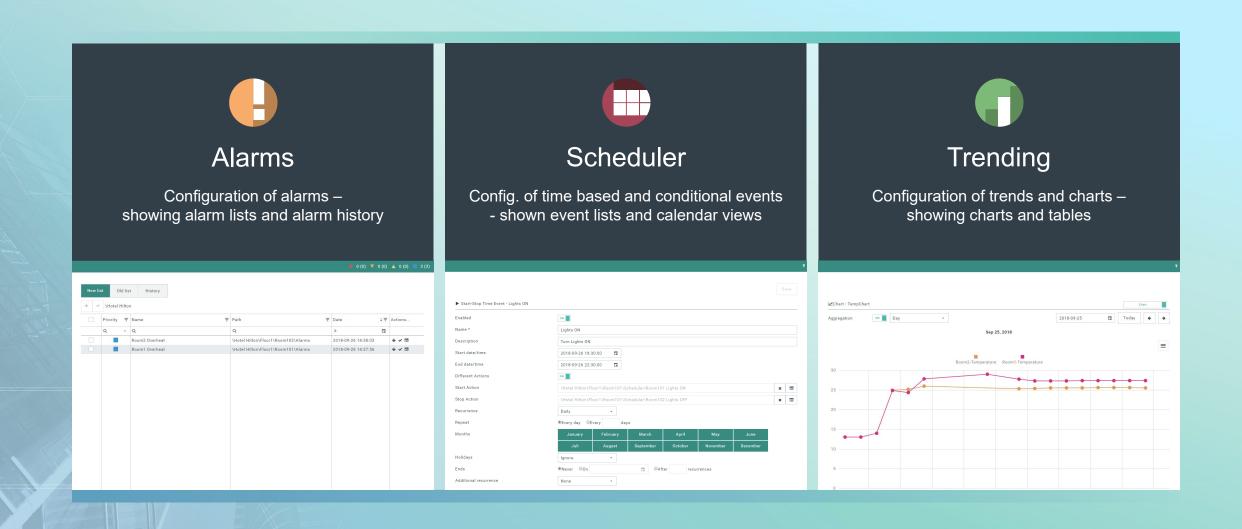
Web Manager





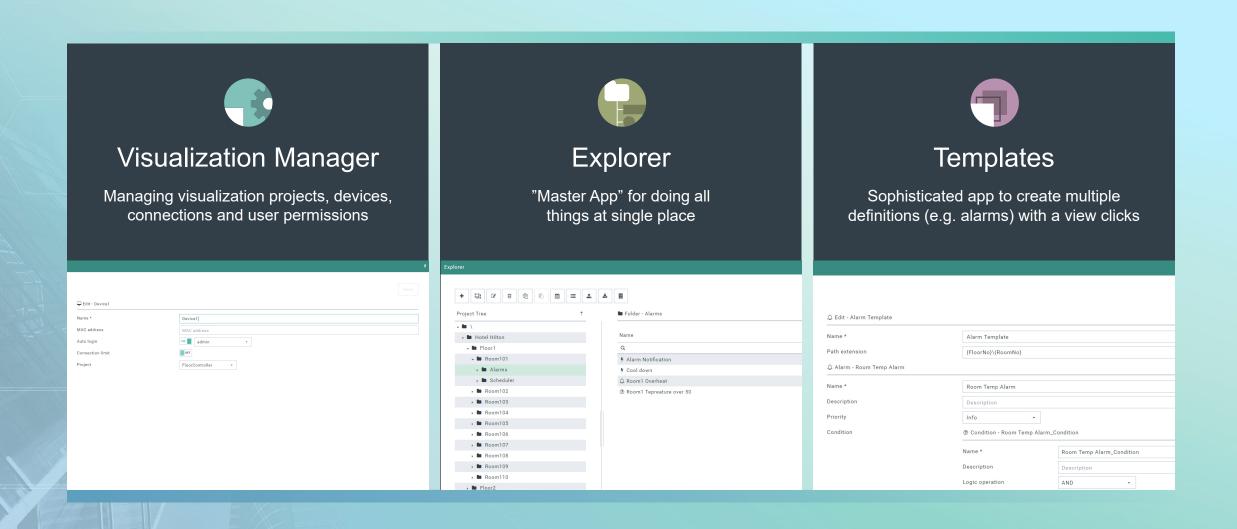
Web Manager apps





Web Manager apps





Web Manager apps



