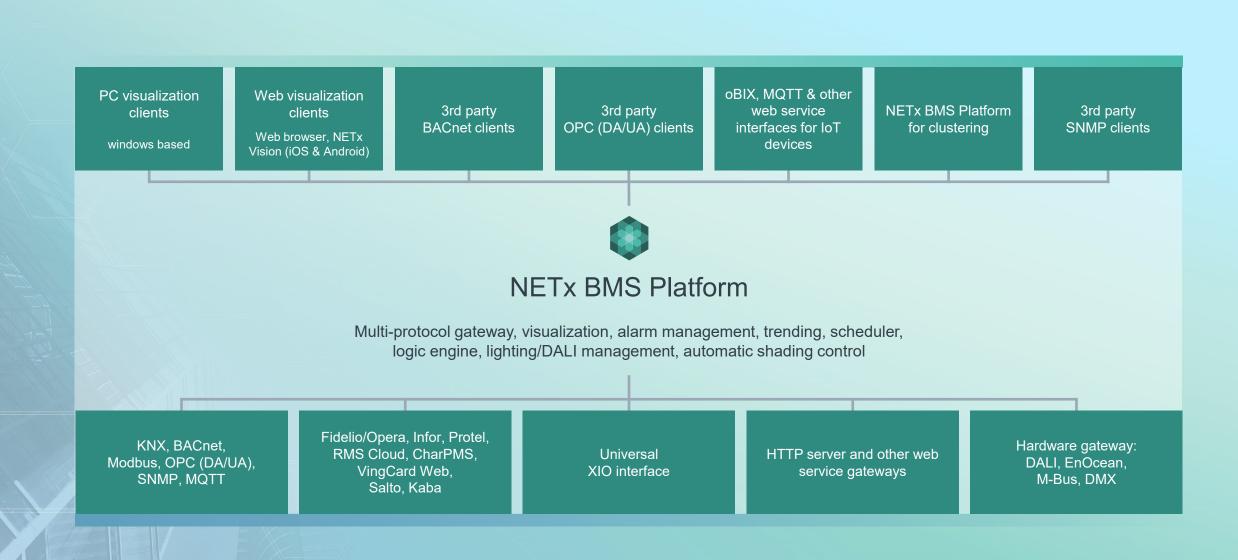


### **NETx BMS Platform**





## **BMS** functions



Alarm management		<b>E</b> Scheduler	Lul Trending	Reporting		
<ul> <li>Overview of all alarm states: new, old, historical</li> <li>Representation according to standard VDI / VDE 3699</li> </ul>		<ul> <li>Define time-based and conditional events</li> <li>Calendar view for time-based events</li> </ul>	<ul> <li>Saving all data point changes or other storage schemes (COV, sampling, etc.)</li> <li>View in diagrams and tables</li> </ul>	<ul> <li>Automatic regular report generation possible</li> <li>Predefined report templates + reporting designer for your own templates and designs</li> </ul>		
1	Co Metering	Uisualization	X Multi-protocol gateway	<b>S</b> Logic engine		
	<ul> <li>Monitor, analyze and process data from smart meters</li> <li>Predefined reporting templates included</li> </ul>	<ul><li>Freely designable</li><li>Web and / or PC based</li></ul>	<ul> <li>Bidirectional data exchange between different protocols and technologies</li> <li>Automatic conversion rules come into effect for different data types</li> </ul>	<ul> <li>Graphic tool for programming function blocks (xLogic Editor)</li> <li>LUA scripting</li> </ul>		

## **NETx Data Centre solution overview**



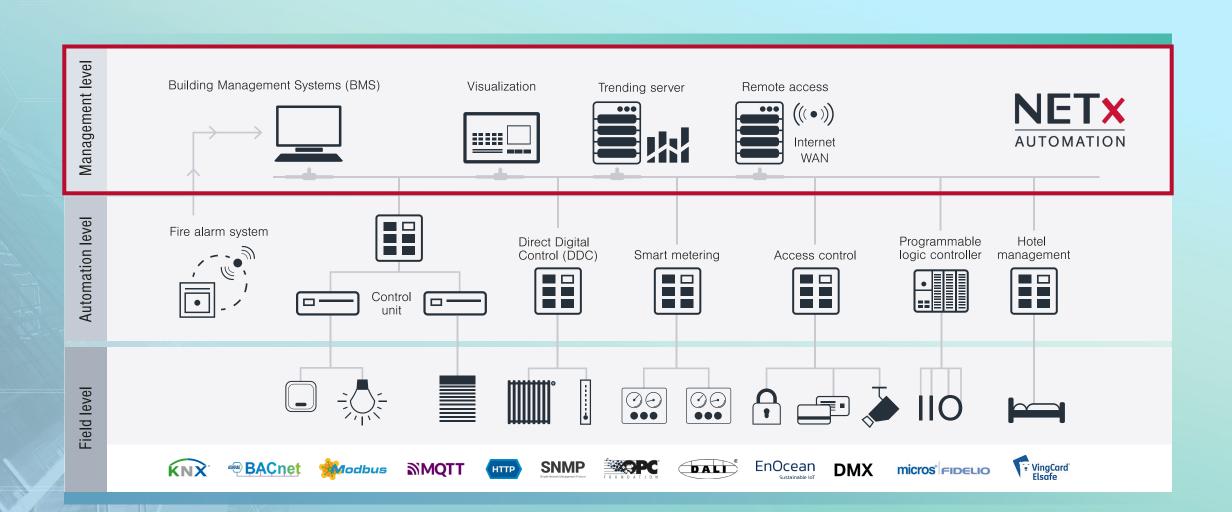


## **Solution overview**



Performance	Fire Safety & Security system	Visualisation		Infrastructure Management		
<ul> <li>Optimum server performance</li> <li>Minimum downtime</li> <li>Alarms/notification/Reports</li> <li>Preemptive maintenance</li> </ul>	• Trigger to activate scenes e.g shutdown     • Combo of 2D & 3D view     • User management • Heat map/power map     • Free designable     • Facility management view		Ū.	<ul> <li>Power supplies/PDUs</li> <li>HVAC system</li> <li>UPS &amp; batteries</li> <li>IT racks</li> <li>Genset</li> <li>CCTV</li> </ul>		
Energy Efficiency	Virtualisation	Environmental Factors	Monitor/Diagnose	Asset Management		
<ul> <li>Lighting control system</li> <li>HVAC efficiency</li> <li>Scheduling/trending</li> <li>Metering solution</li> <li>Event based settings</li> <li>Energy consumption reporting</li> </ul>	<ul> <li>3D/Digital twin</li> <li>Visual representation of devices</li> <li>Spatial representation</li> </ul>	<ul> <li>Temperature management</li> <li>Humidity management</li> <li>Related Alarms/notification</li> <li>Logical functions to deal with abnormal condition</li> </ul>	<ul> <li>Device diagnosis</li> <li>Min downtime</li> <li>Alarms/notification for failed devices</li> <li>Email/Telegram notification</li> <li>Monitor critical parameters</li> </ul>	<ul> <li>Accurate device mapping</li> <li>Centralized collection of device data</li> <li>Photos/Videos/Docs at one place</li> <li>Category filter for easy sorting</li> </ul>		

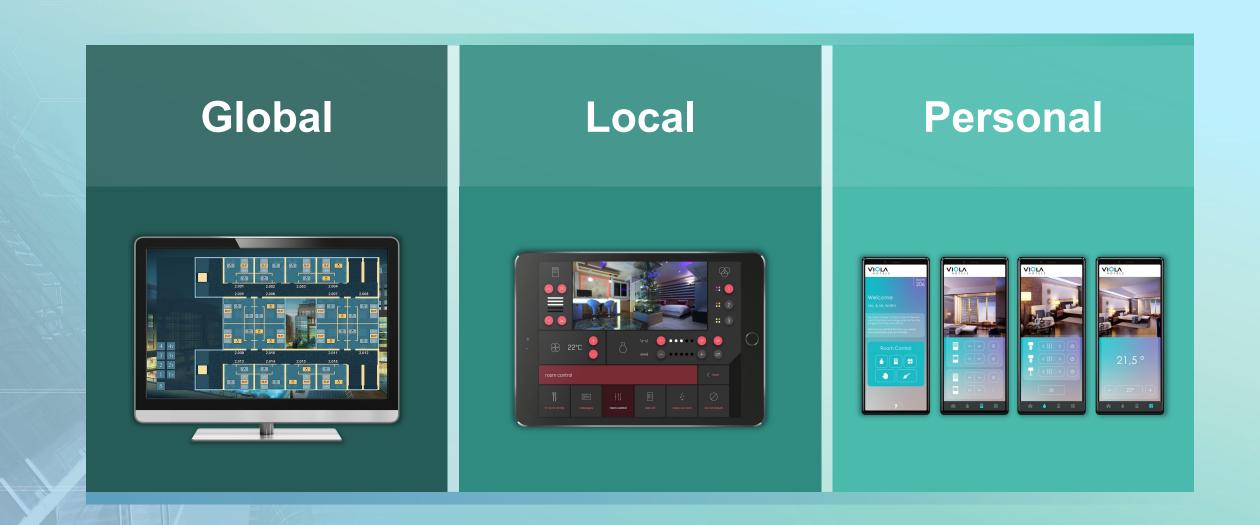
## System Architecture – NETx BMS Platform



**NETX** AUTOMATION

## GUI for all users in the building





#### **Partner story**



#### SIMON

A partnership with NETxAutomation aimed at merging SIMLAB software packages to bring the next-generation professional Building Management System (BMS).

Leveraging the NETx Cloud Portal interface, SIM-ON connects with the KNX ecosystem, as well as other BMS standards.



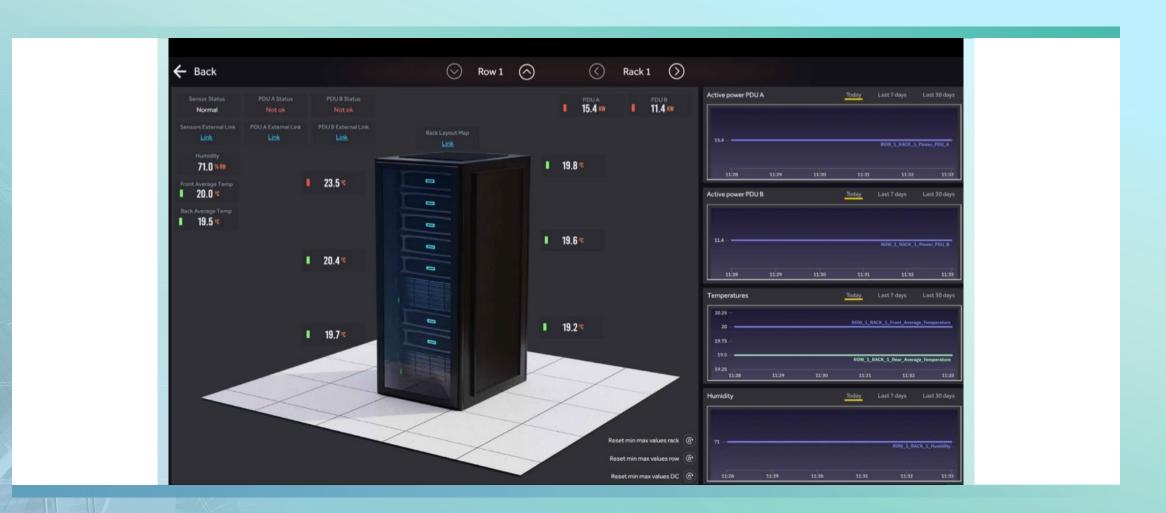
## **Real time view of the DC**





**Rack level** 





## **UPS System**





# Cooling System



			() н	IVAC PDX 3					
System		System sta	atus	Running tim	ve		System	events	
Model Connection state On/Off Control Unit off reason System status Next maintenance User manual Service instructions Service instructions	Connected On None Normal operation July 7 External links Link Link	Supply air temperature setpoint Humidity setpoint Return air temperature Supply air temperature Return humidity Unit cooling load Unit calculated airflow Chilled water inlet temperature Chilled water outlet temperature Compressor state 1 Compressor state 2	50.0% RH	Fan hours Compressor hours 1 Compressor hours 2 Chilled water valve hours Pump hours 1 Pump hours 2 Humidifier hours Dehumidifier hours	7377 HOURS 902 HOURS 901 HOURS 0 MOURS	CONDENSER 1 ISSUE CLOGGED AIR FILTER	CONDENSER 2 ISSUE WATER UNDER FLOOR	RETURNAIR SENSOR ISSUE FAN ISSUE	HUMMIDIFIER ISSUE MAINTENANCE DUE
Web external Cooling Capacity	Lick Fen Speed	Pump Speed 1	Pump Speed 2	Cooling capacity	THIS INFOR	MATION IS NOT PROVI	DED BY THE FIELD	DEVICE	
Compressor Utilization	Reheat Utilization	Humidifier Utilization Dehn	umidifier Utilization	Temperatures 30 - 25 - 20 - 15 -		WWW.W	KMM	Today Last 7	Says Last 30 days

## Other useful tools and features



9		器	[.t.t]				
Alarm logs are stored in the Remote monitoring option SQL database for reporting. from anywhere		For precise analyzes, different trends or periods of a trend can be combined in one diagram		SNMP communication can be used to explore possibility if even monitoring IT equipment			
X					Ļ		
Enables IT Administrators and Serv Contractors to reduce time to repai improve efficiency, and maximize u	r,	data centres under one cloud portal using de			Customized alarming and escalation by device, by rack, or by location to the right people at the right time.		



# www.netxautomation.com