NETx BMS Server

NETx Voyager
PC based visualization

NETx BMS Clients
Web based visualization

NETx LaMPS Modul
Lighting- and DALI Management

NETx Shutter Control
Automatic shading control system

NETx MaRS Modul
Energy reporting system

3rd party BACnet and OPC clients

NETx BMS Server for clustering

oBIX and other web service interfaces for IoT

NETx BMS Server
OPC server with database, webserver and BACnet/IP server

KnX

BACnet Modbus OPC SNMP

Micros Fidelio/Opera Protel VingCard Salto Kaba

JSON ABB EQ Meters Universal XIO interface

OPC DA server for other systems Gira HomeServer/FacilityServer interface

HTTP server and other web service gateways

Hardware gateway

DALI EnOcean M-Bus DMX
NETx BMS Server

- Support of different fieldbus technologies: KNX, BACnet, Modbus, SNMP
- Integrated web server for web-based visualizations (App for tablet or smartphone - iOS and Android)
- Database for storing historical data (historical data table/chart) and trending
- Module for smart metering
- XLogic editor and script engine for additional, complex control functionalities
- Interface to visualization clients: NETx Voyager, NETx BMS Clients
- Additional extensions and modules: NETx LaMPS, NETx MaRS Module, NETx Shutter Control
- Integration of third-party management applications using OPC or BACnet/IP interface or web services interface (oBIX,...)
- Integration of web services and IoT
Interfaces to field level

- **Integration** of different sub systems and technologies
  - KNX, BACnet, Modbus, SNMP, OPC
  - MICROS/Fidelio and Protel, VingCard, Kaba, Salto
  - HTTP Server, Web Service Gateways
  - DALI, EnOcean, DMX and M-Bus via hardware gateway
  - Additional project specific interfaces possible

- **Transparent data point view** independent of technology (“Server items”)

- **Exchanging and forwarding** of datapoint values between technologies
  (“gateway functionality”)
Interfaces to management level

Management interfaces for integration of management clients

- **OPC interface**
  Integration of third-party OPC DA 2.0 and OPC UA clients

- **BACnet/IP interface**
  - NETx BMS Server acts as BACnet device
  - All server items can be mapped to BACnet Objects

- **VNET**
  TCP/IP based interface for integration of NETx clients

- **oBIX and other Web services**
  Web service interface for fast and easy integration of foreign clients
Interfaces

- BACnet/IP clients
- OPC clients
- Web services and IoT devices
- NETx Shutter Control
- NETx MaRS Module
- NETx BMS Clients
- NETx Touch
- NETx Voyager

- HTTP servers and web services gateways
- OPC servers from other manufacturers
- Additional XIO interfaces for other technologies
- Micros/Fidelio
- VingCard
- Kaba
- Salto

- KNXnet/IP router or interfaces
- BACnet/IP router or controller
- Modbus/TCP controller
- SNMP devices

- Different proprietary systems
Project import

Easy import of KNX projects from ETS5 via NETx BMS App Secure

App recognizes configured IP addresses of KNXnet/IP routers or interfaces. Automatic assignment of KNX group addresses to KNXnet/IP routers or interfaces based on building topology.

Extended export file contains:
• KNX group addresses and KNX data point types (KNX DPTs)
• KNXnet/IP routers and interfaces
• Security information for Secure KNXnet/IP routers and interfaces
• ETS project structure incl. network topology (areas, lines, devices, communication objects)
• Building and trade view
• Export of configuration of KNX/DALI gateways for NETx LaMPS Module

BACnet Explorer for automatic devices and object discovery without external tools
NETx BMS Studio

Management user interface for configuration and maintenance

- Management of workspaces
- Configuration of data points
- Automatic import tools
- Logging
- Development of LUA scripts
- Change of parameters
- Creation of server-side events, tasks and links
- Management for web based visualizations
XLogic Editor

Graphical editor for implementing control functionality
Web based visualizations

Included web server for visualizations

- Support of all common Web browsers
- Based on JavaScript and HTML 5 - no plug-ins necessary
- Editor for creating and modifying visualization projects included within NETx BMS Server
- NETx Touch: special app for iOS and Android devices
NETx BMS Server

Main/backup solution