

NETx Voyager 5.0 Visualization

Specification

The visualization software is able to visualize and control an entire building automation system. As a client application it connects to a server (e.g. NETx KNX OPC Server 3.5, NETx BMS Server 2.0 from NETxAutomation) to access the building automation network. Based on this client/server connection, devices and their data points from KNX, BACnet, Modbus, OPC and SNMP can be integrated within the visualization. In addition, application-specific systems (hotel management systems like MICROS Fidelio/Opera, Protel and access control based on VingCard) can be integrated too. Using additional hardware gateways, protocols like DALI, DMX, EnOcean and M-Bus can also be included into a single visualization.

The software runs on any Windows based device. Depending on the project size, on small embedded boxes, touch panels, workstations, server systems can be used.

The visualization software is freely designable. Therefore, a personal, project-specific look and feel can be created. It is possible to specify own buttons and control elements which can be stored in libraries for a later reuse in other projects. Using the concept of master pages, templates can be created which contain elements that are common to multiple visualization pages. The included layer management provides the possibility to change different properties (visible/hidden, enabled/disabled) of multiple elements simultaneously. In addition, pop-up windows are available which can be used to show/hide groups of elements as an overlay. Furthermore, an online mode is available in order to test the visualization during the design phase.

In addition to standard elements like labels, buttons, sliders and images, extended elements like Link Areas, Multi-Picture, Multi-Internet, Polyline, Polygon Area and RGB controls are available too. For images, common file formats like jpeg, gif, bmp, tiff, wmf and png with transparency are supported.

The software provides different modules for enhanced and sophisticated visualization projects.

The historical data chart is used to display historical data within the visualization project. In addition to different chart types (lines, splines, bars, areas, ...), the user can choose the time interval (daily, weekly, monthly, yearly, user defined) directly within the visualization. The user can also switch to a table view. Within both views, printing and exporting to png, jpg or MS Excel are possible. The historical data table is an extension of the table view where enhanced filtering is possible. The metering chart is an additional control element which displays the consumption values of smart meters that are recorded by the metering module of the server. Also in the metering chart, the time interval can freely be defined and switching to table view is also possible.

An embedded event module allows the definition of events that are executed on a value or time based condition. In addition, user defined logic based on VBA scrips can also be executed within the visualization.

The calendar module provides the possibility to specific time based start/stop events. It can be chosen between client based (running within the visualization) and server based calendars (running within the server). Creating and modifying of calendar events can be done by user using a special graphical element. Support for multiple calendars in one project is provided.

The scene manager is used to define scenes in software. The data points and values of the scene can be specified in the design phase or can be changed during runtime. It is possible to define a data point that saves the values of the scene and that replays the scene. Using a special control element, the members of the scene can also be modified during runtime when required.

The alarm module provides the possibility to define alarm conditions which trigger notifications when conditions are met. A notification can be a simple entry within the active alarm list, a pop-up message, an alarm sound or a user notification via e mail or SMS. Switching to dedicated visualization pages is also possible. By using an alarm list, alarms can be monitored, acknowledged or suppressed by the user. All state changes are stored in the alarm history which can also be exported to MS Excel.

The included user management provides the possibility to define multiple users with different access rights to the layers of the visualization. In addition, limiting the access to specific modules is possible too.

The visualization software can be integrated into a main/backup server solution. Export and import to and from a web based NETx BMS Client visualization is also possible.

The software license depends on the number of pages and control elements required in the visualization.

Supplier:

NETxAutomation Software GmbH
Maria Theresia Straße 41
4600 Wels
Austria
office@netxautomation.com
Tel. +43 (0)7242-252 900

Product:

NETx Voyager 5.0
Version:
Software protection:
Product ID: S07.05.0.....

Definition of product version:

Number of control elements, pages, modules and type of software interface

Control elements:

Visible elements like images, buttons, labels, ...

Software protection:

Hardlock (USB dongle) or softlock (hardware-dependent software code)

Services:

Creation of visualizations

Creation of visualizations for specified clients, each pages with elements based on defined ground plans

Creation of images based on provided architectural ground plans

Changes of a floor plan in the visualization

Changes of graphical elements in the visualization

Create functions in VBA scripting language

System requirements:

The following operating systems are currently supported:

- Windows 7 32/64 bit
- Windows 8
- Windows 8.1
- Windows 10
- Windows 2008 R2 Server 64 bit
- Windows 2012 Server 64 bit
- Windows 2012 R2 Server 64 bit

Hardware:

Processor: Intel or AMD 1.8 GHz (Multicore recommended)

Ram: 4 GB or more

Hard disk space: 16GB (32 GB recommended)

Ethernet card: 100 MBit

The following license types are available:

Software	HOME	BASIC	PROFESSIONAL	ENTERPRISE
Elements	400	2500	10.000	unlimited
Pages	20	100	200	unlimited
Eventor	50	500	unlimited	unlimited
Calendar	50	500	unlimited	unlimited
Alarms	50	500	unlimited	unlimited
Scenes	10	500	unlimited	unlimited
Processor	Not available	available	available	available
Virtual devices	Not available	500	unlimited	unlimited

Variant Direct(KNX)

Allows direct connection to KNX without NETx or OPC Server

Connection via Falcon driver of KNX Association

Easy transfer of data from the ETS

Max. 1 KNX interface (KNXnet/IP tunneling, KNXnet/IP routing or KNX USB)

Variant OPC:

Multiple technologies supported (KNX, BACnet, Modbus, SNMP, MICROS Fidelio/Opera, VingCard, ...)

Requires NETx Server (NETx KNX OPC Server 3.5, NETx BMS Server 2.0) or OPC Server

Full functionality only in combination with NETx BMS Server 2.0

Product ID	Version
S07.05.0.01.02	NETx Voyager 5.0 OPC HOME
S07.05.0.01.03	NETx Voyager 5.0 OPC BASIC
S07.05.0.01.04	NETx Voyager 5.0 OPC PROFESSIONAL
S07.05.0.01.05	NETx Voyager 5.0 OPC ENTERPRISE
S07.05.0.02.02	NETx Voyager 5.0 Direct(KNX) HOME
S07.05.0.02.03	NETx Voyager 5.0 Direct(KNX) BASIC