FIAVis

The ultimate visualization solution for EIB/KNX systems

Highlights

- Visualization of systems with 500/unlimited number of process items: each KNX SPS and EIBWeiche comes with a free 500 licence of FIAVis!
- Visualization over network, number of network clients is not limited
- Simulation mode for testing functionality without attached bus systems
- Automation of systems with timings, regulations, scenes... free graphically programmable Soft-SPS/Soft-PLC is included

- Integrated value logging
- Integrated router (exchange of values between different EIB/KNX worlds)
- Included OPC-Server
- Included ActiveX interface
- Included WEB interface (MS IIS needed)
- Included visualization designer with unlimited runtimes
- Supports EIBWeiche, KNX SPS, KNXnet/IP Router (optional), OPC-Servers to other bus systems (optional)

Overview

FIAVis is a new visualization solution which is included in (but not limited to) our EIBWeiche and KNX SPS packages. FIAVis has a central data pool which is running as a Windows Service (Windows XP or newer). This data pool manages all current values of all parametrized addresses from the connected bus systems.
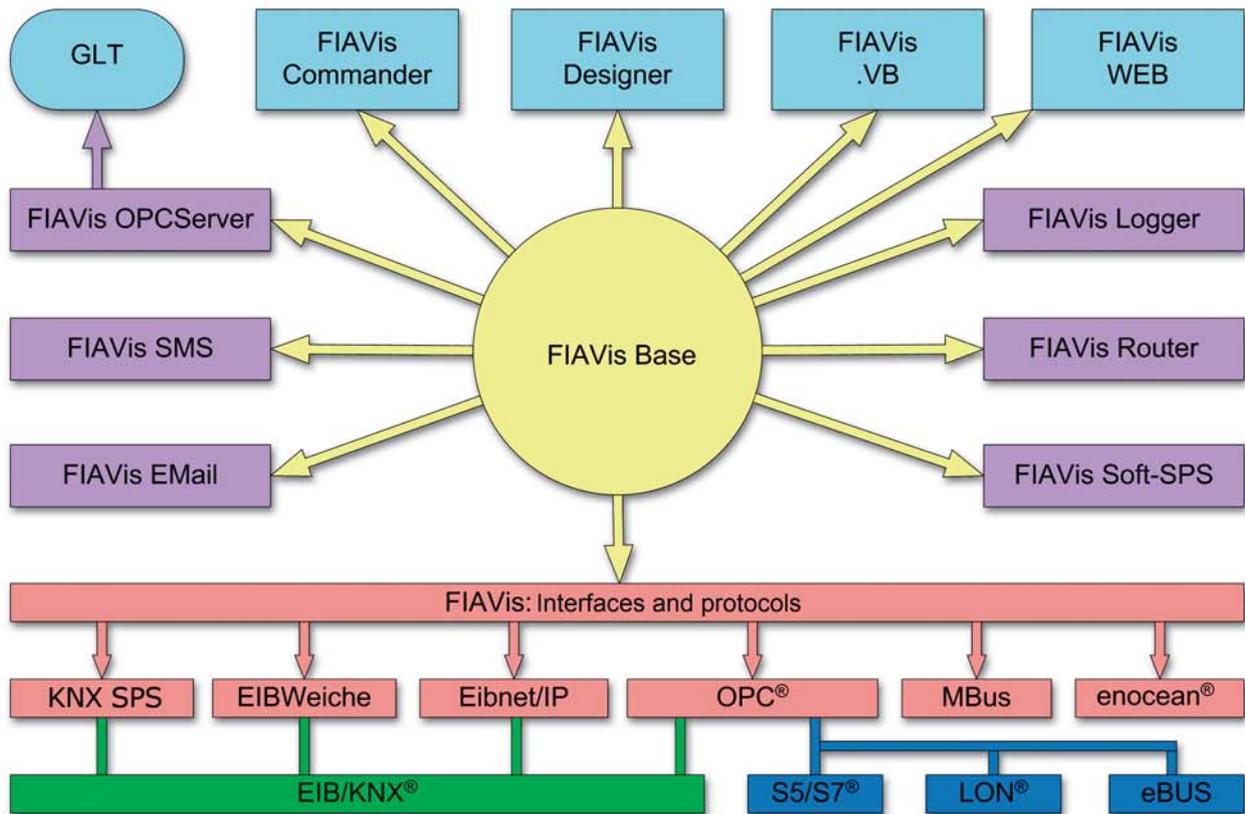
External applications (visualization/GLT systems) can access this data pool by the included OPC-Server / ActiveX / WEB interfaces, but of course FIAVis comes also with its own visualization software, the FIAVis Commander. You can create as many Commander runtime projects as you like, with no additional licence fees, so for example you can easily create individual panels for each user in a big building, each panel can connect to the central data pool by LAN. Optionally you can design optimized user interfaces for mobile iOS/Android devices, usable by the native FIAVis App Commander software, which is available in the iTunes/Google Play stores.

The central data pool can also act as a value monitor (storing values into database files for statistics), as a router (to connect two different worlds), and as a soft-PLC (Soft-SPS) to execute programmable logic functions/time functions. Beside the EIBWeiche and KNX SPS, the data pool also supports Standard KNXnet/IP Routers as an EIB/KNX connection (optional, licence required) and even completely different bus systems can be connected to the data pool, using the OPC interface (optional, licence required).

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FIAVis Base

The central data pool of FIAVis is a real Windows service (all current 32 and 64 bit Windows operating systems are supported), which works without the requirement of a logged-in Windows user. It directly supports the following EIB/KNX access methods: KNX SPS, EIBSPS, KNXnet/IP network router, EIBWeiche serial and EIBWeiche USB.
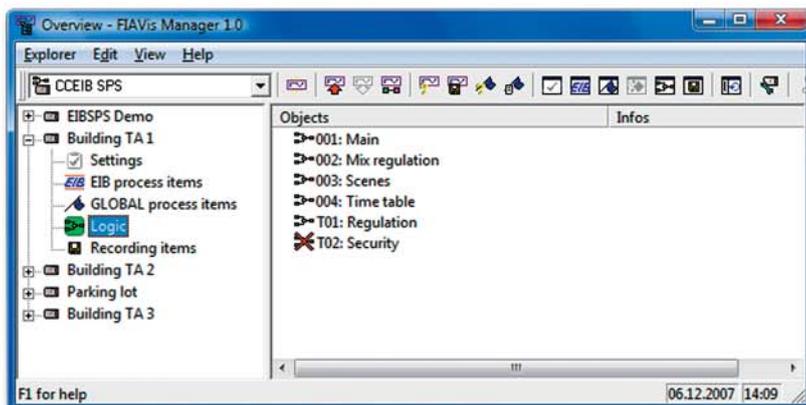
Additionally the OPC-Client functionality allows access to arbitrary other bus systems and data sources. Even the concurrent administration of multiple EIB/KNX plants is possible.
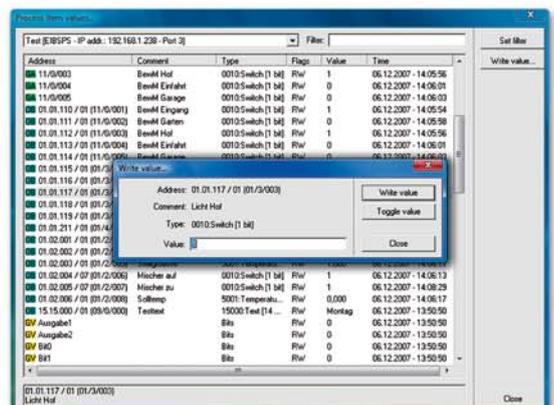

The FIAVis Base data pool service provides an internal Soft-PLC, a logging module, routing functionality, and a simulation mode (for creating and testing your projects without actual bus access). Client-PCs are able to access the data pool by network, without local bus connection, you can use/administrate/parametrize the data pool by a remote connection.

FIAVis Manager

The FIAVis Manager is the parametrization tool for FIAVis Base. It is used to define the process items of the data pool (address import from ETS is integrated), and for creating logics for the Soft-PLC. Here you also manage the logging and routing functionality, and the way of the bus access. Furthermore FIAVis Manager contains status indicators of FIAVis Base (incl. the current licence information), and windows to display/write the current process item values (fast access to the process items without the need
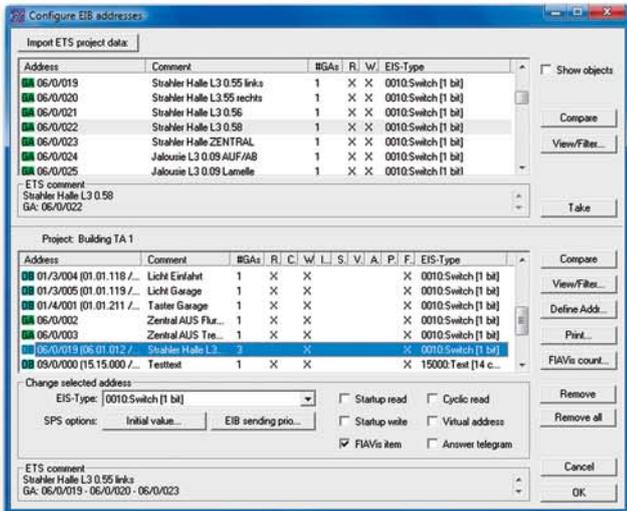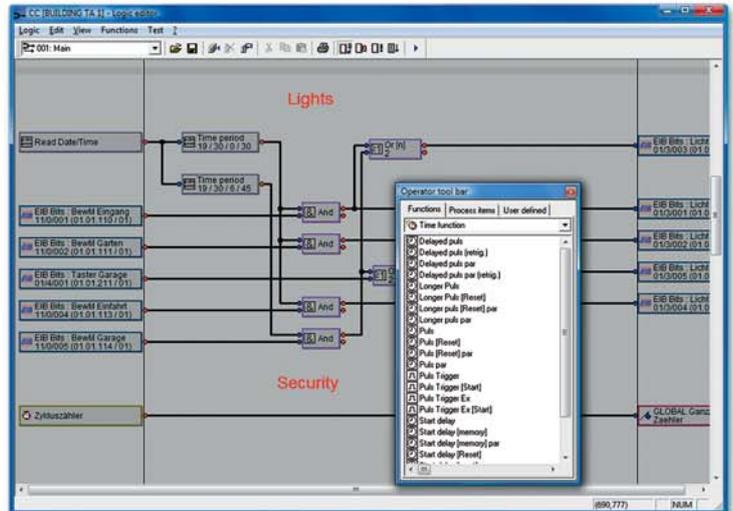

FIAVis Manager

Quick Access to process items

of creating a complete visualization). The FIAVis Manager is able to import older EIBExplorer projects, so you can use your existing EIB SPS and Control Panel projects with FIAVis as well.
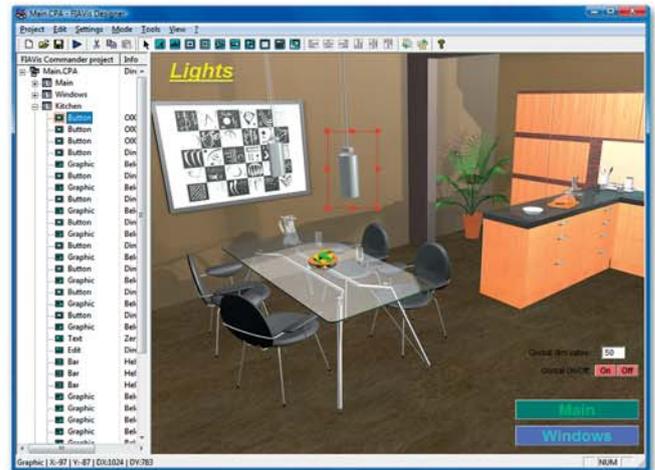

Import EIB Adresses

Logic editor

FIAVis Commander / Designer / Web

This is the visualization software of the FIAVis package.
The visualization GUI gets created with the fully graphical Designer software, which automatically creates the runtime executable (the FIAVis Commander). The runtime directory is just to be copied to the target computer and can be used immediately. Of course you can create as many runtimes as you like, each project can contain arbitrary display pages and control elements.

The following display/ controlelements are available: Text fields, input fields, switches, pushbuttons, scrollbars, bar line displays, graphic fields, page changers, time tables, html views (including web cams) and calendars. These have many adjustment possibilities (arbitrary colors, character fonts, graphic images (available formats are BMP, JPG, GIF, WMF, TIF, PCX – transparency is possible with all formats).

FIAVis Designer

Process item values may be scaled/mapped before they are displayed. The internal user management lets you define users with special privileges. External applications can be launched by pressing a button received process item value, e.g. start of outlook with a button, or start of an SMS-application when an alarm message arrives.

And as an highlight you can turn your Commander project into Webserver HTML/AJAX pages by a simple mouse click, the Micosoft IIS Web Server can be used to host the project for an unlimited number of clients. Additionally it is possible to import existing EIB/KNX Control Panel projects into a FIAVis Commander project, all EIBCP functions remain unchanged.
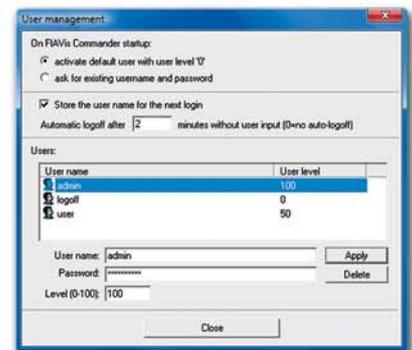
Property windows

Button settings

Bar settings

Time/date settings

User manager

FIAVis App Commander / App Designer

You can design optimized user interfaces for your iOS/Android devices by the FIAVis App Designer. Each visualization project can manage multiple views for different screen sizes. By the push of a button you can test your project directly on your Windows PC, another button transfers the project to the FIAVis Base service (or directly into a KNX SPS). All mobile devices which are using the FIAVis App Commander to connect to the server will get the new design automatically.

The following design elements are available: value display, state display, switches, push buttons, sliders, bar display, picture changer, web display and different input screens. 400 modern graphical symbols are included in the design software, you can also import your own PNG symbols. Ten predefined color sheme can be used out-of-the-box, own color sheme can be defined. Security is important for a mobile remote access to your system. Therefore you can protect the visualization elements, but also the server access by passwords. FIAVis App Commander can be downloaded for free from the iTunes/Google Play stores, the required runtime licences are managed by the FIAVis Base service or the KNX SPS device.

FIAVis OPCServer / FIAVis.VB

External OPC-Clients (visualizations/BMS) are able to access the FIAVis Base data pool using the provided FIAVis OPC-Server. There are no additional parametrization efforts needed, all FIAVis Base process items are automatically available via OPC.For those OPC-Clients lacking a „browse" function it is possible to create a textfile containing all OPC-Server process item names, which allows creating the process items within the client.

FIAVis.VB is an ActiveX interface for usage within own programs respectively in programs supporting ActiveX (e.g. MS-Excel, MS-Access, VB, DotNet). This interface allows easy read/write access to the process items. There are no additional parametrization efforts needed, all FIAVis Base process items are automatically available in the VB module. Contained are commands to read and write process items, furthermore you can install an event handler which is called upon value change.

Contents of delivery

• The complete FIAVis software is included on our EIBTools CD which comes with all of our EIB/KNX products.
  Even without an KNX SPS/EIBWeiche device you can install and evaluate the software.
• Each KNX SPS and all non-REG EIBWeiche devices have a free „500 process items" licence included.
• The optional licences (unlimited process items, KNXnet/IP Router support, OPC-Client) come with an
  USB hardlock dongle to activate the complying functionality.
• Documentation

b+b trace · b+b labels · b+b LP4 · b+b KNX · BBK a member of the b+b group · GS1 Germany