A versatile **bidirectional KNX gateway** for all **Vanderbilt/Siemens SPC intrusion panels**.
A fully customisable **Visualisation engine.**

Main Features

The interface is fully **multidirectional** between the SPC panel, KNX and Modbus. The SPCway Plus also supports BACnet and a json/XML API.

It supports three types of communication objects:

- ***events***: when particular things happen, the panel raises events. SPCway supports **135 types of events**, which can be configured to many hundreds of different actual communication objects.

- ***commands***: SPCway supports **26 different types of commands** (on doors, areas, zones, users, panel, output, audio) that can be send to the panel. These can be configured to many hundreds of different communication objects.

- ***status***: SPCway supports **24 different types of status information**. Combined with the numbers of elements (doors, zones, …) this results in many hundreds of possible status communication objects.

Further, the gateway is also a **KNX-IP router**, with advanced **filtering** options and **line coupler**.

A fully customisable visualisation server, with support for:

- building, plan, level hierarchy
- optional user accountbased ACL
- pincode ACL at building/floor/element level
- supported elements: objects, links, labels, gauges, graphs, html frames, video frame

Visualisation Cient: no specific software or app is required since it is web browser based (no user licenses/cost), supported on all platforms (iOS, Android, Windows, linux …)

Configuration

Everything is easily configurable on the gateway, by means of the embedded webserver.

No need to get into the SPC panel configuration to modify the communication objects once the EDP-client is set up in the panel, optionally with encryption.

Security – certification

If for security reasons, certified limitation of the allowed commands is required, then this is configured inside the panel. Exposure of each communication object can be chosen individually. Obfuscation mechanism supported.

The SPCway aligns with system certification.

Installation

Physical & electrical installation time is a few minutes: click on DIN rail, connect power, LAN and KNX and optionally Modbus RTU. Overall time mainly determined by parametrisation of communication objects.
All configuration is done through the embedded webserver, without need for ETS (KNX).

Constraints

The product supports all present and future SPC intrusion panels which have at least 'EDP over TCP V2′ (panel firmware version 2.3 or higher, dating 2011-2012).

Panel Variants

There are three variants of the SPCway, in line with the SPC product portfolio:

- version 4xxx: can be used on SPC panels 4xxx
- version 5xxx: can be used on SPC panels 5xxx or lower
- version 6xxx: can be used on SPC panels 6xxx or lower

Each panel variant is available as **SPCway** or **SPCway Plus** variant.

Plus Variant

The following additional features are available on the SPCway Plus only:

- Visualisation: fully customisable embedded server; clients connect license free by web browser
- BACnet over UDP
- API: a flexible json/XML URI API

Characteristics

KNX	
Communication objects	No real limitation (well over 1000)*
Group addresses	No real limitation (well over 1000)*
Telegram types	Support for Read, Write and Response telegrams
Status resend	Status GA is updated at change. Periodic resend for predefined values can be configured per GA and per value.
Reactivity	Delay between an event report or command execution is ~ 50 ms or less. Delay for status updates ~ 100 ms or less.
KNP-IP	Supported, including source & destination filtering, supports secure tunnel, tunnelling and routing
	(*) limitation mainly due to telegram rate limitation on the KNX EIB or IP bus.
Modbus	
Modes	RS485/RTU and TCP
Data	Coils and holding registers according to configuration, several data representations
Other info	See KNX: all KNX SPC objects are transparently converted and synchronised with Modbus
BACnet	
Mode	BACnet over UDP, supporting subscription
Data	Binary values and Analog values are supported.
Other info	See KNX: all KNX SPC objects are transparently converted and synchronised with BACnet; As BACnet supports no string type values, string objects are o available on BACnet, through conversion configuration
Interface	
LAN	10/100 ethernet
KNX	KNX/EIB keystone (black/red) and IP
Modbus	RS485 or TCP
BACnet	UDP
API	json and XML over https(s)URI
PSU	DC $12V$-$24V$ input Passive power over Ethernet is also possible
Power	DC $24V$ - Power consumption typically ~ $1W$ (less then $2W$)
Mechanical	35mm DIN-rail, latching
Dimensions	53x57x90mm (WxHxD)
Configuration	
Webserver	The gateway is completely configured through the embedded webserver (smartphone/tablet/pc supported)
Product database	There is no specific ETS product database, due to the virtually unlimited possible variations of communication objects which can be created. ETS support through dummy device product database.