

SPCway screenshots

Version: V0.9

Contents

1	Wel	come	e screen	2
2	Syst	em C	onfiguration	3
	2.1	IP ne	etwork interface configuration	3
	2.2	KNX	address & KNX-IP	3
3	KNX	& SP	PC configuration	4
	3.1	Gate	eway parameters / configuration	4
	3.1.3	1	General config	4
	3.1.2	2	Editing/adding an Event communication object	5
	3.1.3	3	Editing/adding a Status communication object	7
	3.1.4	4	Editing/adding a Command communication object	8
	3.1.	5	Duplication	9
	3.2	KNX	objects	9
	3.3	KNX	object logging1	10
	3.4	Utili	ties1	10
	3.5	Aler	ts – Logs – Error Logs 1	10



1 Welcome screen





2 System Configuration

2.1 IP network interface configuration

← → C 🗋 spcway.	local/cgi-bin/	flashsys/index.cgi						दे 9	D 🙆 🗉
System Network Status	Help								Start page
	Interfaces						- ×		
	Name	Mac address	Mtu	TX Bytes	RX Bytes	Errors			
	eth0	00:00:54:FF:82:3F	1500	0 B	4 GB	0/0	alla -		
		Interface eth0				×			
		Protocol	Static IP			T			
		IP address	Static IP DHCP						
		Network mask	255.255.255	.0					
		Gateway IP	192.168.255	.1					
		DNS server	192.168.255	1					
		Mtu							
					OK Ca	ncel			
DpenRB.com									

2.2 KNX address & KNX-IP

← → C 🗋 spcway.local/cgi-	bin/flashsys/index.cgi			☆ 💬 🚇 🗏
System Network Status Help				Start page
	KNX connection		×	
	General SRC filter	DST group filter DST indiv. filter	Secure tunnel	
	Mode	EIBnet/IP Routing	•	
	KNX address	1.1.99		
	KNX IP features			
	Multicast IP	224.0.23.12		
	Multicast TTL	1		
	Multicast interface	eth0		
	Maximum telegrams in queue	100		
			OK Cancel	
DpenRB.com				



3 KNX & SPC configuration

3.1 Gateway parameters / configuration

3.1.1 General panel and gateway settings

While editting a setting (upon clicking the parameter in the grid)

← → C D	spcway.local/cgi-b	in/scada/index.cgi			값 💬 🐻 🗏
SPCway KNX - SPC C	Configuration		i i	Neighbours: Select neighbour	▼ Start page
KNX SPC config	KNX SPC config KNX O	bjects KNX Object logs Ut	ilities Alerts Logs Error log		
General	Events	Status	Commands Relead configuration		
Name	Value	Configure General gate	way parameter	×	
Panel ID	1000	News			3
SPCway ID	100	Name:	TCP port		0
TCP port	50000	Value:	50000		0
			Save	Cancel	
/ersion: 20130927				CPU/IO	: 0.11 0.35 0.45, Memory: 11%



3.1.2 Editing/adding an Event communication object

KNX SPC config	KNX SE	PC config	KNX Object	s KNX Object log	ys Utilitie
General		Eve	nts	Status	
Class	Event	View L	ist	Ontion	KNY ob
Doors	Acces	Add ne	ew event	4	11/0/24
Doors	Access	Granted	•		11/0/30
Doors	Access	Granted	•		11/0/31
Zone State Ch	Zone Or	nen	*	2	10/2/1

Alternatively: click on a communiation object in the grid to start editing.

Resulting edit/add window:

Doors	*		
Access Granted	~		
*			
4			
۲			
11/0/24			
05. 1 byte unsigned integer 💙			
	Doors Access Granted * 4 V 11/0/24 05. 1 byte unsigned integer 1 user 4 is granted access to any door		

Multiple elements to assist the user to configure:

- Comboxes to help find the needed SIA event: for event Class:

Class:	Doors	~
Event:	Alarm Abort	
Door ID: Filter on User ID:	Alarm Restores Alarms Confirmed alarms	
Active:	Doors	
KNX object:	Early / Late	
KNX datatype:	Fault or Tamper Restores Faults or Tampers	
KNX value:	Inhibit and Isolate	
Description:	Network Other Other (Non- Standard) Setting and Unsetting Unfiltered	
	Zone State Changes	



and Event (listing the possible events in the selected event Class):

Class:	Doors	~
Event:	Access Granted	~
Door ID:	Access Closed	
Filter on User ID:	Access Denied	
	Access Granted	
Active:	Access Open	
KNX object:	Door Forced	
KNX datatype:	Door Left Open	
KNIV surfaces	Door Restoral	
KNX value:	Reader Locked	
Description:	Reader Unlocked	
	Request to Exit	
	Unknown Card	

- Tip texts for the other info, depending on info retrieved from the panel:

• Element ID: (type of element depends on event)

Door ID:	*	< * : All n.
Filter on User ID:	4	1 : Voordeur
Active:	Ø	2 : Garagepoort 3 : Schuifdeur priv
KNX object:	11/0/24	4 : Keukendeur passe

• Filter element ID: (type of element depends on event)

Filter on User ID:	4		< * : All
Active:			2 : Sarah
KNX object:	11/0/24		3 : Louis 4 : Amaryllis
KNX datatype:	05. 1 byte unsigned integer	*	5 : Parrain
KNX value:	1		7 : Kuisman

• KNX value: explaining the possible options

KNX value: Description:	1 user 4 is granted access to any door		The value to be written in the telegram Allowed values: - a numeric value (in line with data type) - a string (dt string required) - IV: ID Value = textual description of ID (dt string required) - FV: Filter Value = textual description of the Filter (dt string required) if present - SV: SIA 2 letter code, followed by the ID Value (dt string
	Save	ncel	required) - SI: SIA 2 letter code, followed by the ID number (dt string required) - TS: the TimeStamp of the event in time of the SPC panel (dt time required)

- KNX Datatype from a combobox:

KNX datatype:	05. 1 byte unsigned integer	~
KNX value:	Not specified	-
Description:	01. 1 bit (boolean)	
Description.	02. 2 bit (1 bit controlled)	
	03. 4 bit (3 bit controlled)	
	03.007 dim/blinds step	
	04. 1 byte ASCII character	
	05. 1 byte unsigned integer	
	· 05.001 scale	
	· 05.003 angle	
	06. 1 byte signed integer	
	07. 2 byte unsigned integer	
	08. 2 byte signed integer	
	09. 2 byte floating point	
	· 09.001 Temperature	
	3 byte unsigned integer	



3.1.3 Editing/adding a Status communication object

ifigure Status		
lass:	Area	*
itatus:	Area mode	~
area ID:	3	
ossible values:	Unset, Partset_A, Partset_B, Fu	Illset
active:	Ø	
NX object:	11/3/3	
NX datatype:	01. 1 bit (boolean)	~
itatus value type:	Converted	~
Convertion table:	Edit status convertion	n
Resend interval:	20	
tesend @ value:	0	
Description:	test desc	

Similar elements to assist the user to configure as for the Event:

- Comboboxes for status Class, Status & datatype
- Tiptexts for Element ID (Area ID in case of example above)

Either the raw status can be sent (text or values, depending on status, and as shown in the 'Possible values' field), or the raw status can be converted into personalised status values. If 'Status value type' is '*Converted*' then the convertion button is enabled, popping up the convertion configuration window:

Inset	0
artset_A	1
artset_B	1
ullset	1



3.1.4 Editing/adding a Command communication object

Class:	Area	*	
Command:	Set an area	*	
Area ID:	CV		
Option:			
Active:			
KNX object:	11/1/1		
KNX datatype:	05. 1 byte unsigned integer	*	
KNX value filter:			
KNX feedback object:	11/2/1		
Description:	Set the area with ID number as sent in the KNX command on '11/1/1', and report cmd success on '11/2/1'		
		0	

Similar elements to assist the user to configure as for the Event:

- Comboboxes for command Class, Command & datatype
- Tiptexts for
 - Element ID (Area ID in case of example above)

Area ID:	CV	CV : use the KNX Command Value as ID
Option:		1 : Bureaus
Active:		2 : Prive 3 : Kelder/garage
KNX object:	11/1/1	

o Option: only needed for certain commands like audio verification -> message nr

	<	For certain commands an option value needs to be
		provided (see manual). Allowed values:
11/0/2		message nr 2)
01. 1 bit (boolean)	*	will be used as numerical input
	 ✓ 11/0/2 01. 1 bit (boolean) 	 ✓ 11/0/2 01. 1 bit (boolean)

o KNX value filter

KNX value filter:	1	Command value based filtering When provided, the command will only executed if KNX
KNX feedback object:	11/1/2	telegram Command Value is identical to this value (string based comparison)
Description:		(not supported: comma seperated list of allowed values)

o KNX feedback object : possible feedback values

KNX feedback object:	11/1/2	<	Command feedback
Description:			is sent on this object. is sent on this object. Data type of the feedback object is always dt.uint8. Meaning of feedback: 0 = success 2 = error, due to configuration 12 = error, panel in full engineer mode 13 = error, panel not ready to receive such cmd 14 = error, cmd not enabled
	Save	cel	15 = error, cmd not implemented 16 = command: filtered out (KNX value filter) 17 = command: no panel reply



3.1.5 Duplication

Existing settings can be duplicated to speed up configuration:

Gener	al E	Vents	Status	Commands	Reload config	uration			
Class	Clabus	Fiement ID	VIIV ablast	Ciatus usius i	Decend interval	Description		Anthun	
System	Status System Mains	Element ID	1/2/3	Converted	Resend interval	Description	Dupi	Active	6
Area	Area mode	1	11/3/1	Status String	20	test desc	Ęŋ	0	¢
Area	Area mode	2	11/3/2	Status String	20	test desc	En l	0	6
Area	Area mode	3	11/3/3	Converted	20	test desc	D.	0	6

3.2 KNX objects

way KNX - SPC Configuration				Neighbours:	Select	t neighbour		•	Start p
X SPC config KNX SPC config	KNX Objects	KNX Object logs Utilities Alerts Lo	gs Error log						
bject filter	Group add	Object name	Data type	Current value	Log	Export	Updated at	Set	
lame or group address:	11/0/3	EVT Zone Open on id 1, value 1	01. 1 bit (boolean)	0	1		14.12.2014 22:		0
tame of group address.	11/0/4	EVT Zone Open on id 9, value 1	01. 1 bit (boolean)	0	V	1	14.12.2014 20:		0
	11/0/5	EVT Zone Open on id 4, value 1	01. 1 bit (boolean)	0	1		14.12.2014 20:		0
Data type:	11/0/6	EVT Access Open on id 1, value 1	01. 1 bit (boolean)	0	1		_		0
Not specified Y 11/0/11		EVT Open Area on id 1, value 0	05. 1 byte unsigne	0	1	1	14.12.2014 15:	City	0
Fags (match all):	11/0/12	EVT Open Area on id 2, value 0	05. 1 byte unsigne	0		1	14.12.2014 15:	()	0
	11/0/13	EVT Open Area on id 3, value 0	05. 1 byte unsigne	0	1		14.12.2014 15:		0
Apply filter Cancel	11/0/24	EVT Access Granted on id * for id 4, value 1	01. 1 bit (boolean)	1			09.12.2014 12:		C
	11/0/30	EVT Access Granted on id *, value IV	16. 14 byte ASCII	Voordeur	1		14.12.2014 15:		C
	11/0/31	EVT Access Granted on id *, value FV	16. 14 byte ASCII	Christof	V	1	14.12.2014 15:		C
	11/0/32	EVT Access Granted on id *, value TS	10. 3 byte time / day	15:06:16	1		14.12.2014 15:		C
	11/0/33	EVT Zone Open on id 1, value TS	10. 3 byte time / day	22:19:37			14.12.2014 22:		0
	11/1/1	CMD Set an area on id CV	05. 1 byte unsigne	0	1	(m)	· - ·		6
	11/1/2	CMD Open a door momentarily on id 1 (on	01. 1 bit (boolean)	1			08.12.2014 00:		6
	11/1/3	CMD Silence All Bells	01. 1 bit (boolean)	0			—		6
	11/1/4	CMD Audio Challenge on id 1, 2, option CV	05. 1 byte unsigne	0	V		—		6
	11/1/5	CMD Set a door to normal mode on id 1 (on	01. 1 bit (boolean)	0	V		_		C
	11/1/6	CMD Set an area on id 1, 2, 3 (on CV 1)	01. 1 bit (boolean)	0	V				6
	11/1/7	CMD Set an area on id 1 (on CV 3, #4)	05. 1 byte unsigne	0	V	100	20.11.2014 10:		C
	11/2/1	CFB on command ga 11/1/1	05. 1 byte unsigne	0	V		_		C
	Add new o	bject 🖉 Auto update enabled 🗍 Clear	A Page 1	of 3 🕨 🔰	2		Displaying obj	ects 1 -	20 o

One can send a KNX telegram (eg a command) directly from the interface:

Set object value	×
E E Object name: E Group address: E Data type:	CMD Silence All Bells 11/1/3 01. 1 bit (boolean)
E E New value: C C	true
c c	Save Cancel



3.3 KNX object logging

Cway KNX - SPC Configuration					Neighbou	Irs: Select neigh	hbour	▼ <u>Start</u>
IX SPC config KNX SPC config	KNX Objects KN	X Object logs	Utilities Alerts Logs Erro	or log				
bject log filter 🔍	Log time	Object addr	Object name	Туре	Source add	Decoded v	Data type	Object data (number
Start date:	14.12.2014 22:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
	14.12.2014 22:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	22:19:37	10. 3 byte ti	161325
End date:	14.12.2014 22:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	1	01. 1 bit (bo	01
	14.12.2014 22:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
· · · · · · · · · · · · · · · · · · ·	14.12.2014 22:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	22:19:14	10. 3 byte ti	16130E
Name or group address:	14.12.2014 22:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	1	01. 1 bit (bo	01
	14.12.2014 22:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
Tags (match all):	14.12.2014 22:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	22:18:55	10. 3 byte ti	161237
	14.12.2014 22:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	1	01. 1 bit (bo	01
Max	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
/aiue:	14.12.2014 21:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	21:39:26	10. 3 byte ti	15271A
	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	1	01. 1 bit (bo	01
ource address:	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
	14.12.2014 21:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	21:39:20	10. 3 byte ti	152714
	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	1	01. 1 bit (bo	01
Apply filter Cancel	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
	14.12.2014 21:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	21:19:17	10. 3 byte ti	151311
	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	1	01. 1 bit (bo	01
	14.12.2014 21:	11/0/3	EVT Zone Open on id 1, value 1	write	1.1.99	0	01. 1 bit (bo	00
	14.12.2014 21:	11/0/33	EVT Zone Open on id 1, value TS	write	1.1.99	21:19:06	10. 3 byte ti	151306

3.4 Utilities

SPCway KNX - S	PC Configuration					Neighbours: Select neight	▼ vuoc	Start page
KNX SPC config	KNX SPC config	KNX Objects	KNX Object logs U	ilities Alerts Logs	Error log			
Import ESF f	le Date	and time	Install updates	Backup	Restore	Configuration	System •	

3.5 Alerts – Logs – Error Logs

Message logging of alerts, data and errors.

This provides useful information when diagnosing gateways problems (eg version incompatibility, ...)

IX SPC config KN									Neighb			
	IX SPC config K	X Objects KN	IX Object logs	Utilities	Alerts	Logs	Error log					
Alert time Script nam		e	Message									
15.12.2014 10:37:27 SPC EDP 1		CP daemon EDP SIA event: writing 0 to '11/0/3'										
5.12.2014 10:3 SP	Cway KNX - SPC	Configuration	FDD 014	-** *-		*******	4101001				Neighb	
5.12.2014 10:3 K	NX SPC config K	NX SPC config	KNX Objects	KNX Obje	ct logs	Utilities	Alerts	Logs E	rror log			
5.12.2014 10:3	Log time Script		name	Mes	Message						4	
5.12.2014 10:3	15.12.2014 10:36:57	DP TCP daemor	* arg: 1 * string: SIA event table * arg: 2 * table: [1] * string: 1000 [2] * st									
1	15.12.2014 10:36:55 15.12.2014 10:31:57	SPCway KNX	EDD TCD doman								drina: 101	Ne
	15.12.2014 10:31:54	KNX SPC confi	g KNX SPC o	onfig KI	VX Objects	KNX O	bject logs	Utilities	Alerts	Logs	Error log	
1	15.12.2014 10:22:21	Error time		Script name		E	Error description					