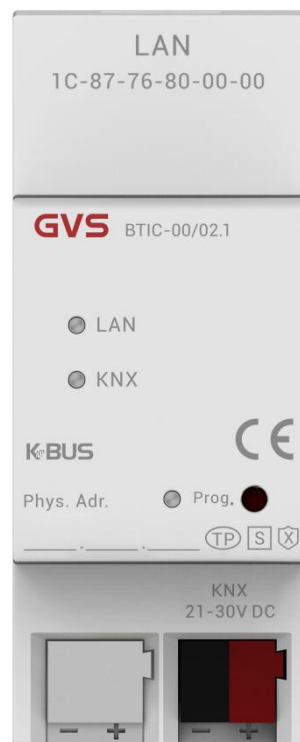


K-BUS KNX-BACnet

KNX-BACnet Gate a Client_V1.1

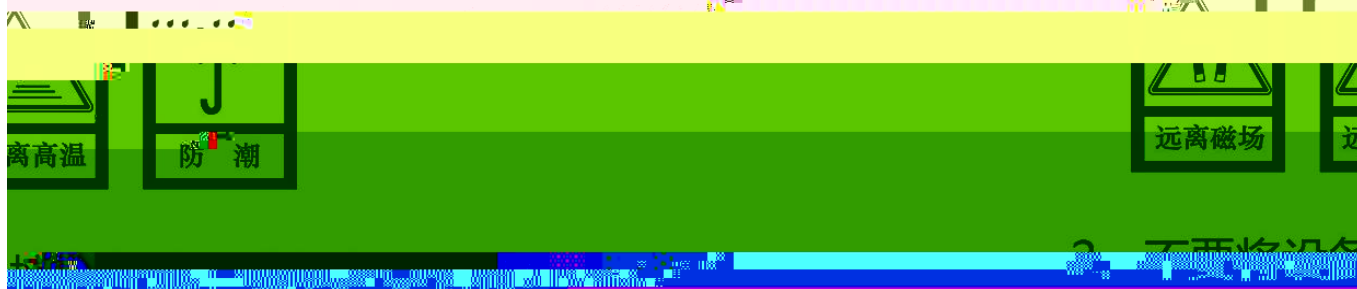
BTIC-00/02.1



KNX/EIB

注意事项

1、请远离强磁场、高温、潮湿环境。



3、不要使用湿布或具挥发性的试剂擦拭设备；



		1
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KNX/EIB

KNX-BACnet

KNX-BACnet

BACnet/IP

BACnet

BACnet

BACnet

KNX

KNX

BACnet

KNX-BACnet

KNX-BACnet

KNX

.knxprod

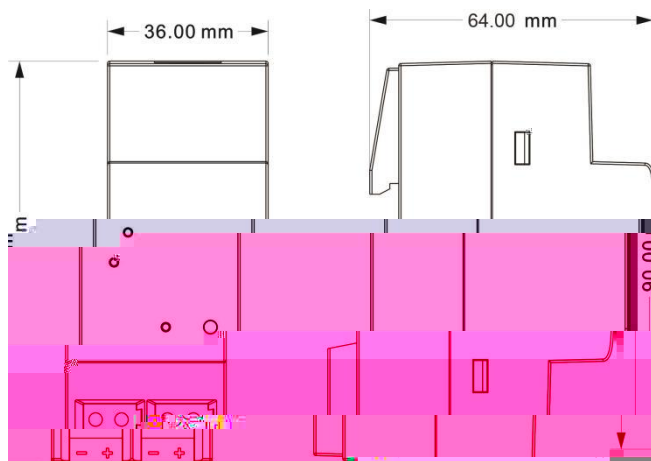
ETS

ETS5.7

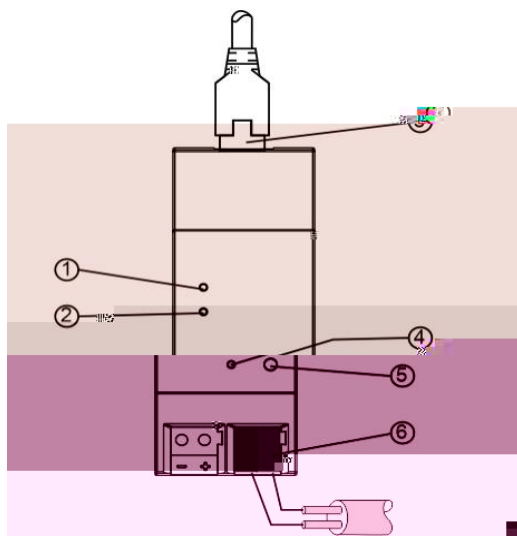
- BACnet BACnet BACnet BACnet
- 256 BACnet
1bit/2bit/1byte/2byte/4byte
- 8 ID
- 5 KNXnet/IP
- KNX (KNX Data Secure KNXnet/IP Secure)

	21-30V DC,	KNX
	19.5mA/24V	15.5mA/30V
	470mW	
KNX	(/)	
LAN	RJ45	10/100 Base-T
LAN LED	:	
	:	
KNX LED	:	KNX
	:	
LED		
– 5 °C ... 45 °C		
– 25 °C ... 55 °C		
– 25 °C ... 70 °C		
<93%		
BACnet Stack SourceForge		
	DIN	35mm
/	36 × 90 × 64mm/0.1kg	

3.1.



3.2.



LAN LED

LED

KNX LED

LAN

KNX

4

4

3



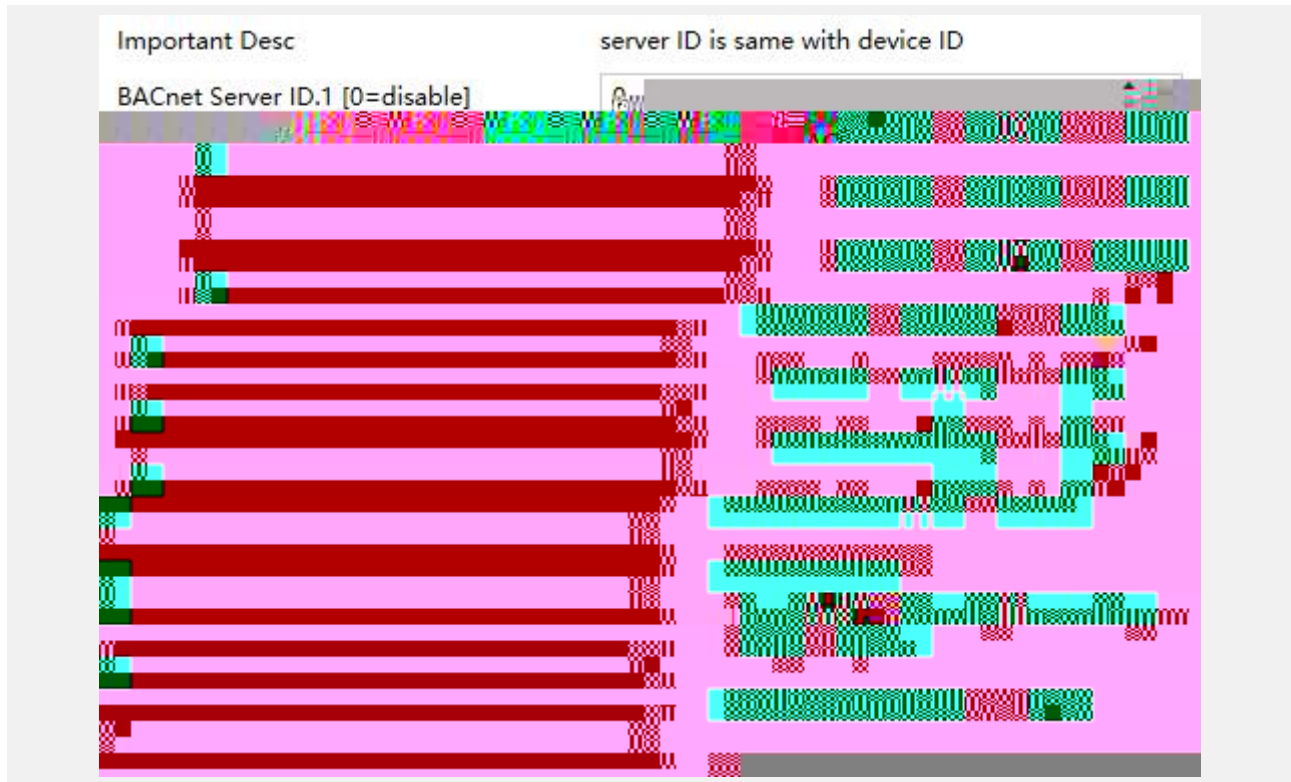
KNX/EIB

KNX-BACnet

KNX-BACnet IP Gate a Client/00E1 1.0	527	1024	2048	768

ETS

5.1. General



5.1 "General"

Important Desc: server ID is same with device ID

ID

BACnet Server ID. [0=disable] (-1..8)

x x ID 8 ID 0..4194303

0

/ ID

Number of Points

BACnet 0..256

256 BACnet

KNX/EIB

KNX-BACnet



5.2. BACnet point

Description of point	<input type="text"/>
Device-/Server ID select	Disable ▾
KNX's DPT	DPT 1.xxx Boolean/Switch/... (1bit) [0..1] ▾
BACnet point type	AnalogInput[0] [4byte IEEE float] ▾
BACnet Instance	0 ▲
Enable linear transformation [KNXv=Base+BACv*Factor,value will use float]	Disable ☐ Enable ☐
Base [float xxx.xxx] ->KNX	0
Factor [float xxxx.xxx] ->KNX	1
BACnet point read function	Disable ☐ Enable ☒
Report its value to KNX when it is changed	Disable ☐ Enable ☐
BACnet point write function	Disable ☐ Enable ☒

5.2 "BACnet point x"

Description of point

14

Device-/Server ID select

ID

BACnet Server ID.1

BACnet Server ID.2

BACnet Server ID.3

BACnet Server ID.4

BACnet Server ID.5

BACnet Server ID.6

BACnet Server ID.7

KNX/

KNX/EIB

KNX-BACnet



5.3. (tunneling)

KNX-BACnet

5

5.3

ETS

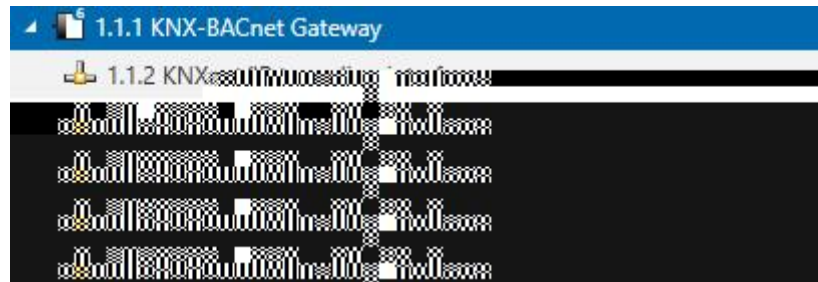
Visualization

APP (Smartphone)

(Tablet)

(Bus

tool)



5.3

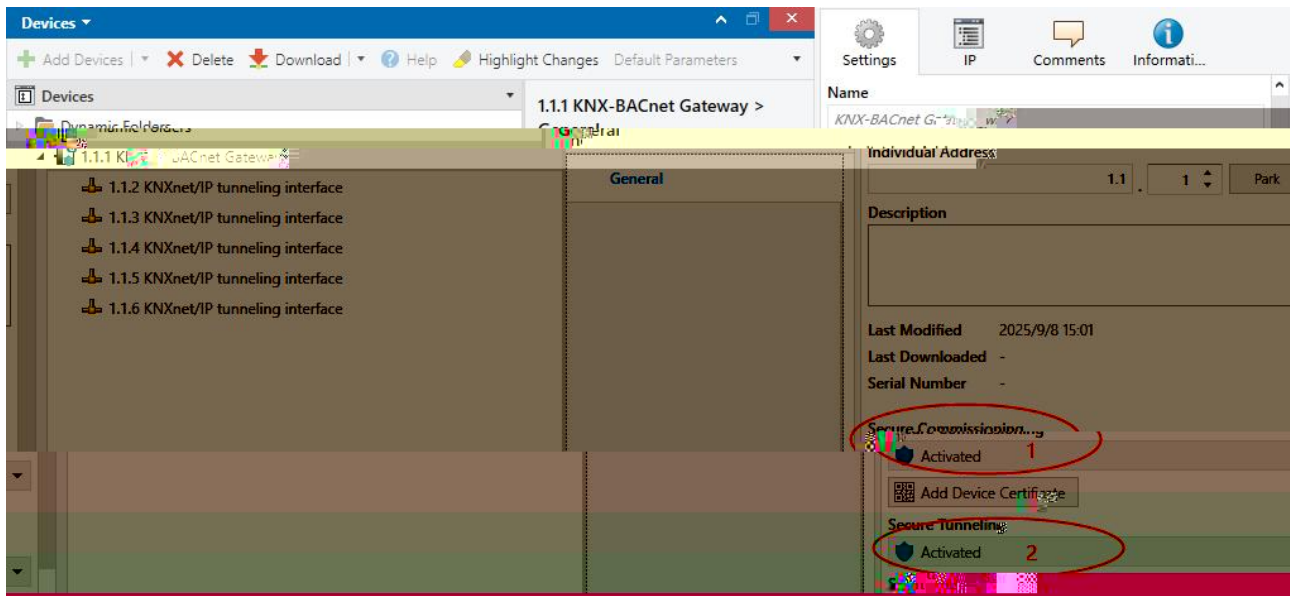
ETS5

5

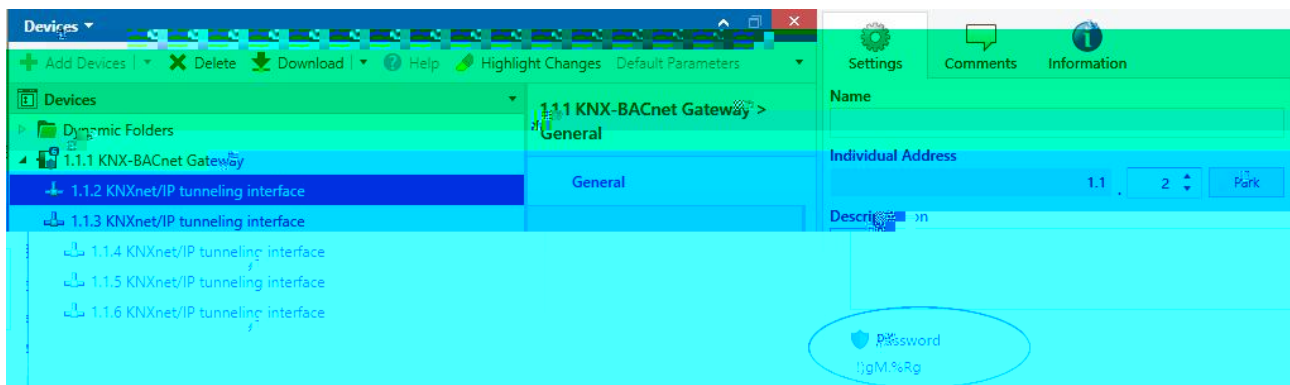
“ Park ”

5.3.2

5.3.4



5.3.3



5.3.4

“ Secure Commissioning ”

5.3.5

“ Secure Commissioning ”



Set Project Password

New project

To ensure secure communication, you must provide your project with a password so the stored keys in the project are protected.

Select Cancel to use not security at the Backbone in this project.

A good password should consist of at least eight characters, at least one number, one uppercase letter, one lowercase letter, and have a special character.

New Password



Password strength

Confirm Password

OK Cancel

5.3.5

5.4.KNX

KNX-BACnet

KNX

KNX

(Tunneling)

ETS



❖ KNX

..

KNX

❖ KNX

FDSK =

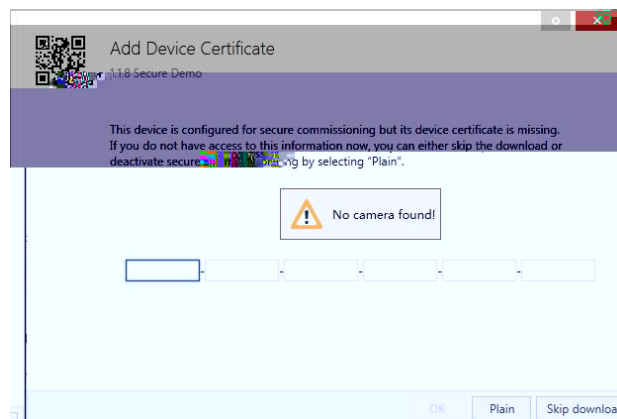
ETS

✧

ETS

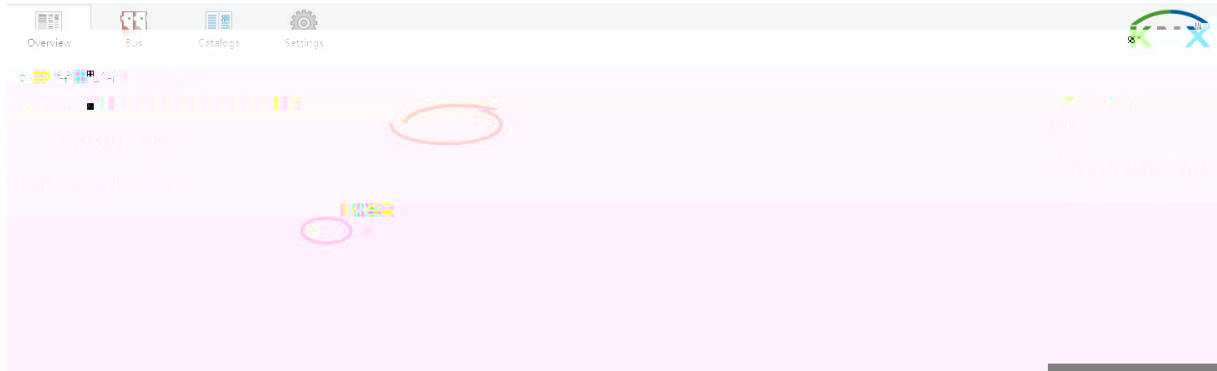
5.4.1

QR

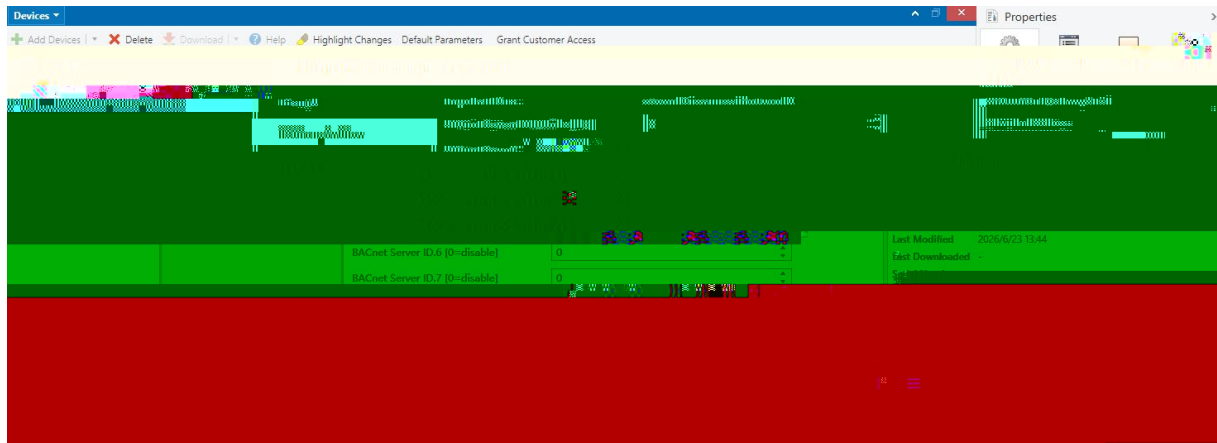


5.4.1





5.4.2 Add Device Certificate



5.4.3 Add Device Certificate



FDSK

FDSK

KNX

FDSK

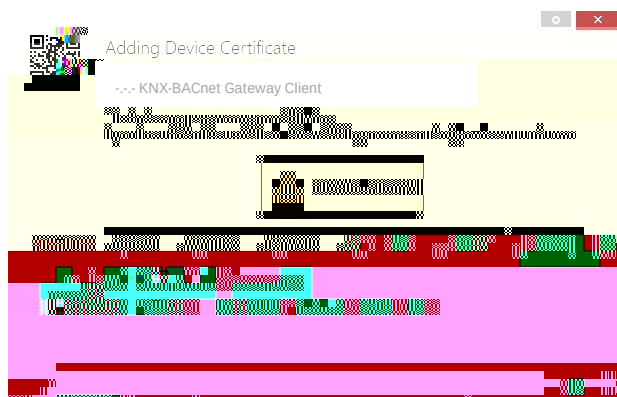
FDSK

ETS

5.4.4

ETS

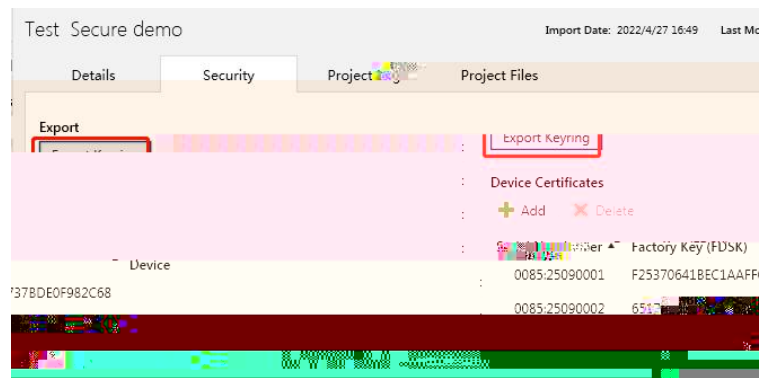
FDSK



5.4.4

KNX/EIB

KNX-BACnet



5.4.7

ETS IP

IP

1.1.2

Test

IP

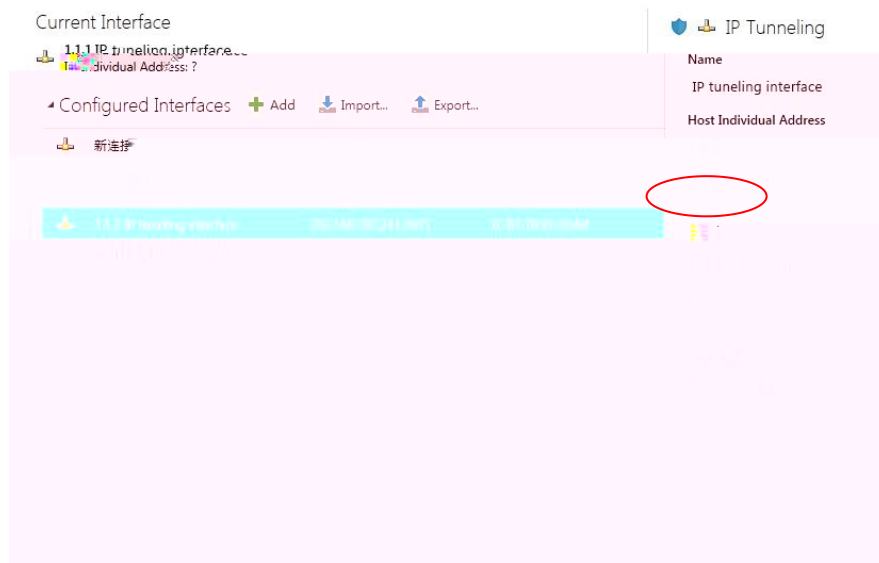
OK

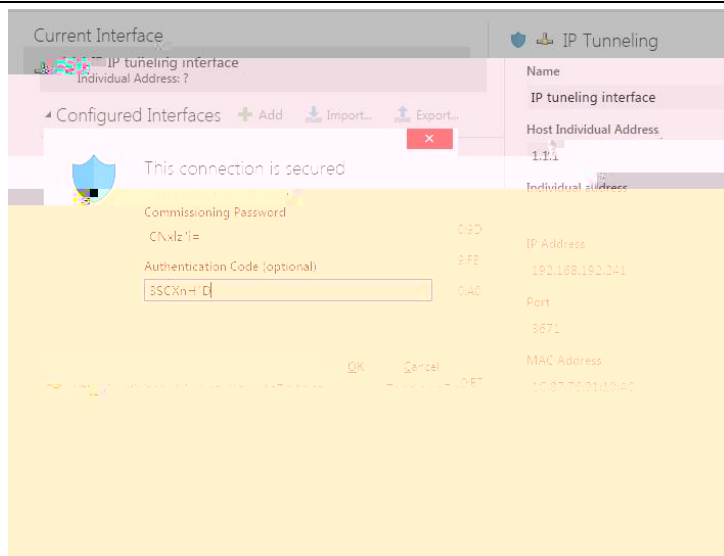
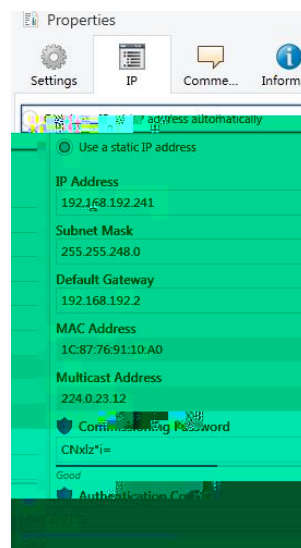
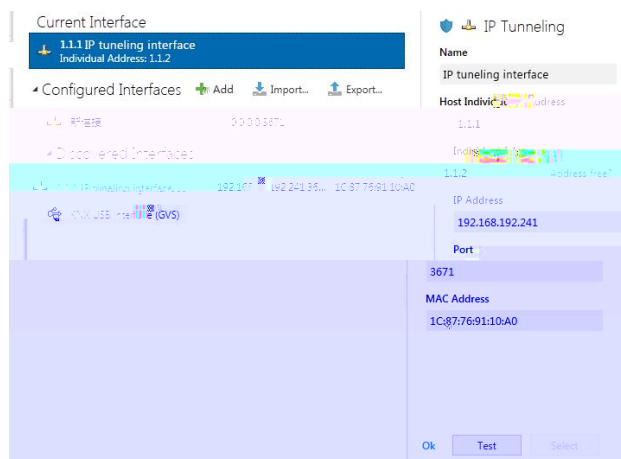
Test

Ok

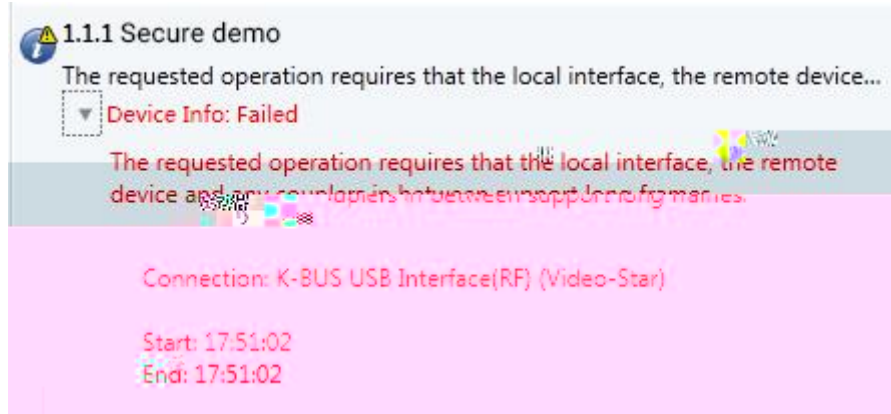
Select

5.4.8





5.4.8



5.4.9

C

W

R

T

U

6.1. BACnet point

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,1bit			1 bit	C	R	-	T	-	1-bit	Low
17	BACnet point 1 -	Write to bacnet,1bit			1 bit	C	-	W	-	U	1-bit	Low

DPT 1.xxx Boolean/Switch/... (1bit) [0..1]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,4bit			4 bit	C	R	-	T	-	3-bit controlled	Low
17	BACnet point 1 -	Write to bacnet,4bit			4 bit	C	-	W	-	U	3-bit controlled	Low

DPT 3.xxx B1U3 (4bit) [0..16]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,1byte general			1 byte	C	R	-	T	-	8-bit unsigned value	Low
17	BACnet point 1 -	Write to bacnet,1byte general			1 byte	C	-	W	-	U	8-bit unsigned value	Low

DPT 2.xxx (2Bit) [0..3]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,2bytes float			2 bytes	C	R	-	T	-	2-byte float value	Low
17	BACnet point 1 -	Write to bacnet,2bytes float			2 bytes	C	-	W	-	U	2-byte float value	Low

DPT 5.00x Scaling (1byte) [0..100]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,4bytes counter...			4 bytes	C	R	-	T	-	4-byte unsigned value	Low
17	BACnet point 1 -	Write to bacnet,4bytes counter...			4 bytes	C	-	W	-	U	4-byte unsigned value	Low

DPT 9.xxx Float Value (2bytes)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,2bytes counter...			2 bytes	C	R	-	T	-	2-byte unsigned value	Low
17	BACnet point 1 -	Write to bacnet,2bytes counter...			2 bytes	C	-	W	-	U	2-byte unsigned value	Low

DPT 14.xxx IEEE Float (4bytes)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,4bytes counter...			4 bytes	C	R	-	T	-	4-byte unsigned value	Low
17	BACnet point 1 -	Write to bacnet,4bytes counter...			4 bytes	C	-	W	-	U	4-byte unsigned value	Low

DPT 7.xxx 16 bit counter (2bytes) [0..65535]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,1byte ASCII			1 byte	C	R	-	T	-	1-character	Low
17	BACnet point 1 -	Write to bacnet,1byte ASCII			1 byte	C	-	W	-	U	1-character	Low

DPT 12.xxx 32 bit counter (4bytes) [0..4294967295]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,1byte ASCII			1 byte	C	R	-	T	-	1-character	Low
17	BACnet point 1 -	Write to bacnet,1byte ASCII			1 byte	C	-	W	-	U	1-character	Low

DPT 5.010 8 bit counter (1byte) [0..255]

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	BACnet point 1 -	Read from bacnet,1byte ASCII			1 byte	C	R	-	T	-	1-character	Low
17	BACnet point 1 -	Write to bacnet,1byte ASCII			1 byte	C	-	W	-	U	1-character	Low

DPT 4.001 ASCII character (1byte) [0..255]



KNX/EIB

KNX-BACnet

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	16	BACnet point 1 -	Read from bacnet,6bytes RGBW			6 bytes	C	R	-	T	-	Colour RGBW	Low
17	17	BACnet point 1 -	Write to bacnet,6bytes RGBW			6 bytes	C	-	W	-	U	Colour RGBW	Low

DPT 251.600 RGBW (6bytes) [0..255]*6

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
232.600	232.600	RGB (3bytes) [0..255]*3											

DPT 232.600 RGB (3bytes) [0..255]*3

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6.010	6.010	8 bit counter (1byte) [-128..127]											

DPT 6.010 8 bit counter (1byte) [-128..127]

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
8.xxx	8.xxx	16 bit counter (2bytes) [-32768..32767]											

DPT 8.xxx 16 bit counter (2bytes) [-32768..32767]

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
16	16	BACnet point 1 -	Read from bacnet,4bytes count...			4 bytes	C	R	-	T	-	4-byte signed value	Low
17	17	BACnet point 1 -	Write to bacnet,4bytes counte...			4 bytes	C	-	W	-	U	4-byte signed value	Low

DPT 13.xxx 32 bit counter (4bytes) [-2147483648..2147483647]

6.1 "BACnet point x"

DPT

				1bit								1.*1-bit	
				4bit								3.*3-bit controlled	
				2bit								2.*1-bit controlled	
				1b te								5.*8-bit unsigned value	
				2b te								9.*2-b te float value	
				4b te								14.*4-b te float value	
				2b te								7.*2-b te unsigned value	
16	read from bacnet, ...	BACnet point 1 -	4b tes	C,T,R								12.*4-b te unsigned value	
			1b te									57.*8-bit counter pulses(0...255).*	o
			1b te									character	
			6b tes									251.* Colour RGBW	
			3b tes									232.*3-b te colour RGB	
			1b te									6.010 counter pulses(-128..127).*2	
			2b tes									signed	
			4b tes										

KNX/EIB

KNX-BACnet

KNX-BACnet

		15.15.254
IP	IP tunneling	15.15.241
		15.15.242
		15.15.243
		15.15.244
		15.15.245
IP		
IP		192.168.2.200
		255.255.255.0
		192.168.2.1

IP

4

4

3

LAN KNX

LAN KNX

FDSK

5.4 KNX