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、潮湿等环境；



2、不要将设备



3、不要使用湿布或具挥发性的试剂擦拭设备；



..... 1

..... 2

..... 3

3.1. 3

3.2. 3

..... 4

ETS 5

5.1. General 5

5.2. BACnet point 7

5.3. (tunneling) 11

5.4. KNX 14

5.5. 20

..... 21

6.1. BACnet point 21

..... 24

KNX-BACnet BACnet/IP BACnet

BACnet BACnet KNX

KNX BACnet

KNX-BACnet

KNX-BACnet KNX

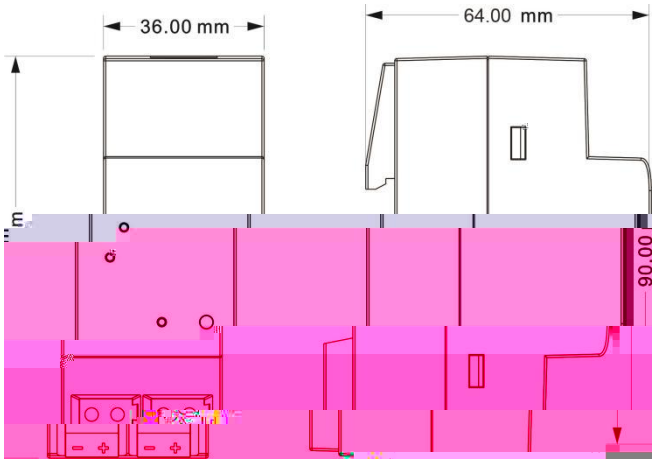
.knxprod ETS ETS5.7

- BACnet BACnet BACnet BACnet
- 256 BACnet

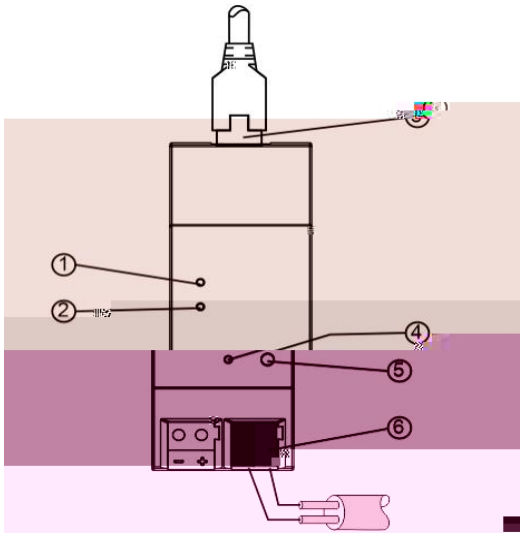
  1bit/2bit/1byte/2byte/4byte
- 8 ID
- 5 KNXnet/IP
- KNX (KNX Data Secure KNXnet/IP Secure)

	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-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

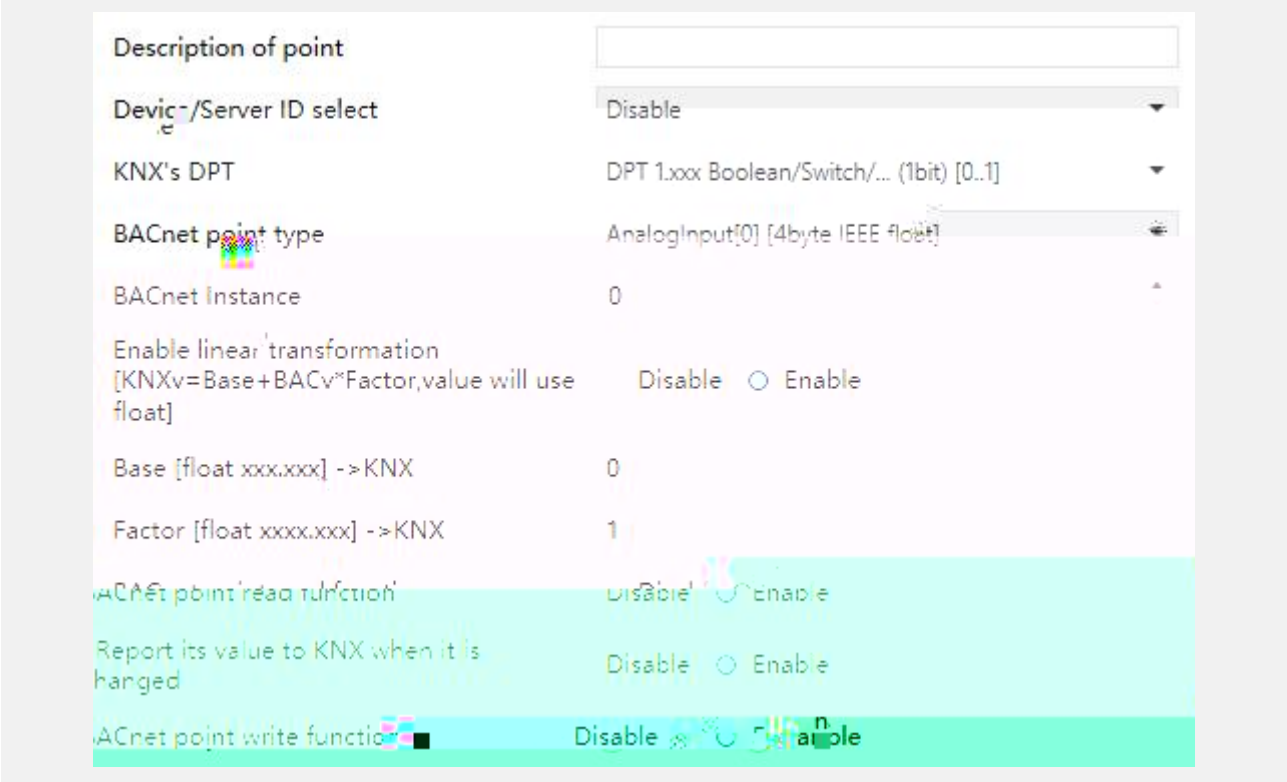
Number of Points

BACnet **0..256**

256 **BACnet**

KNX/EIB KNX-BACnet □□ □

5.2. BACnet point



5.2 “BACnet point x”

Description of point

14

De ice/Ser er ID select

ID

BACnet Ser er ID.1

BACnet Ser er ID.2

BACnet Ser er ID.3

BACnet Ser er ID.4

BACnet Ser er ID.5

BACnet Ser er ID.6

BACnet Ser er ID.7

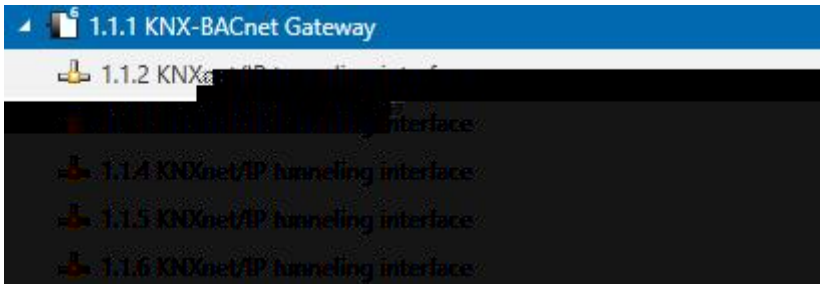
KNX/

KNX/EIB KNX-BACnet □

5.3. (tunneling)

KNX-BACnet 5 5.3

ETS Visualization APP (Smartphone) (Tablet) (Bus tool)

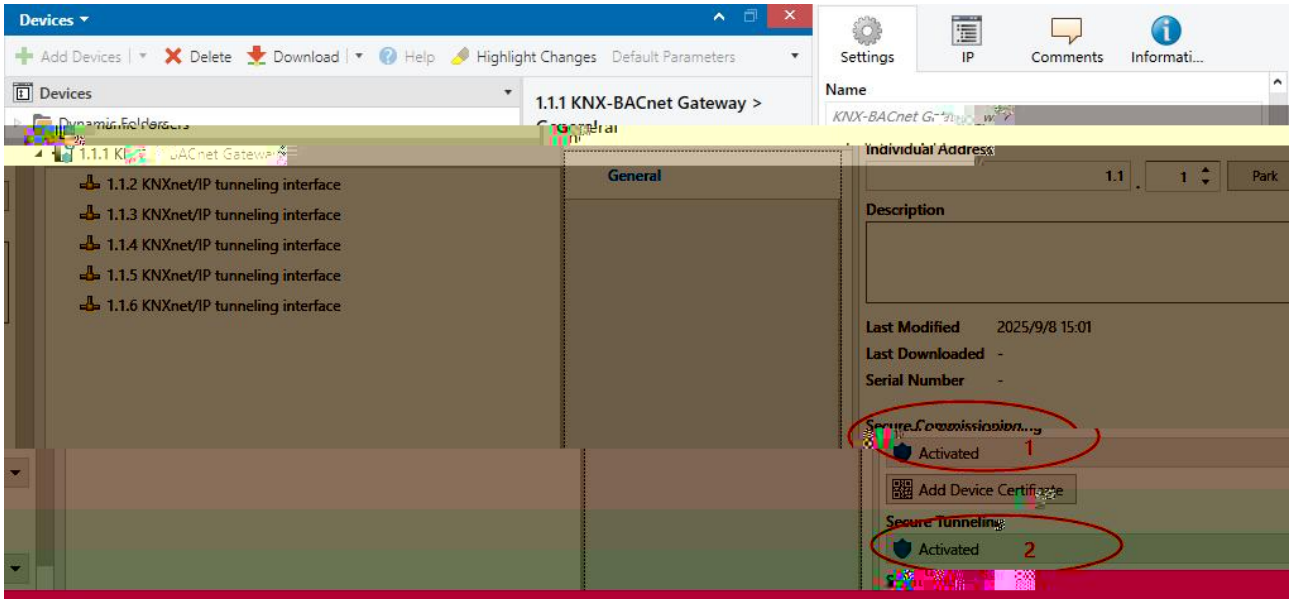


5.3

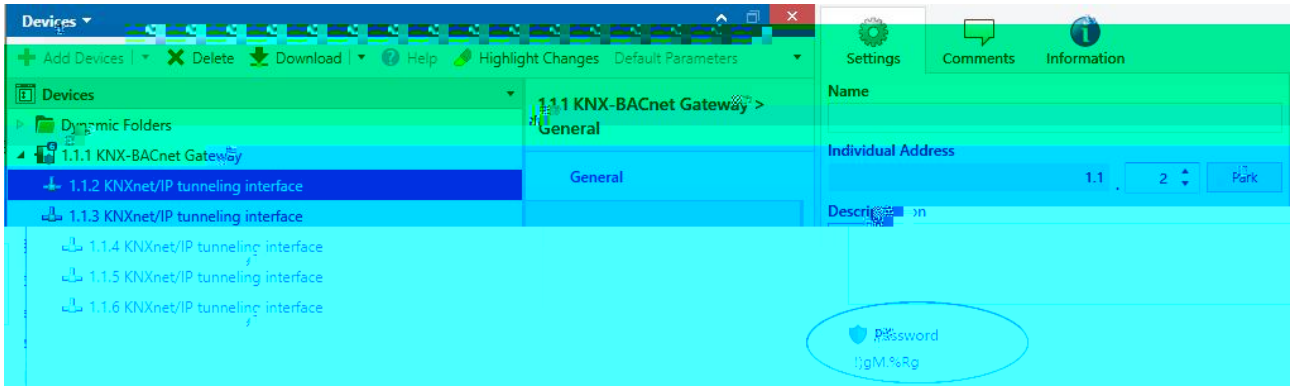
ETS5 5

“ Park ” 5.3.2

5.3.4



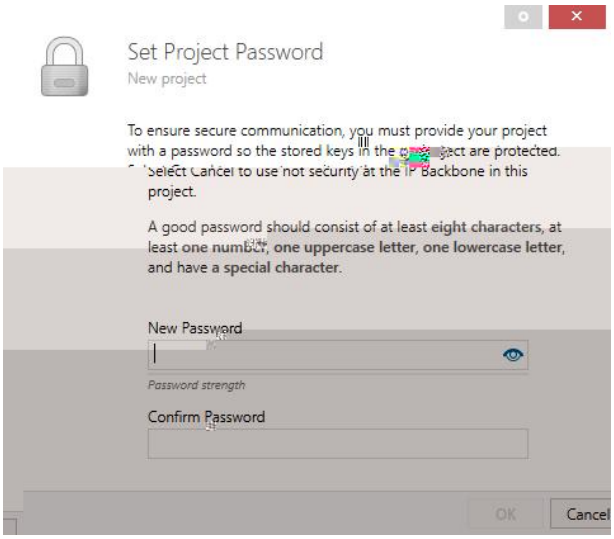
5.3.3



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 IP 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

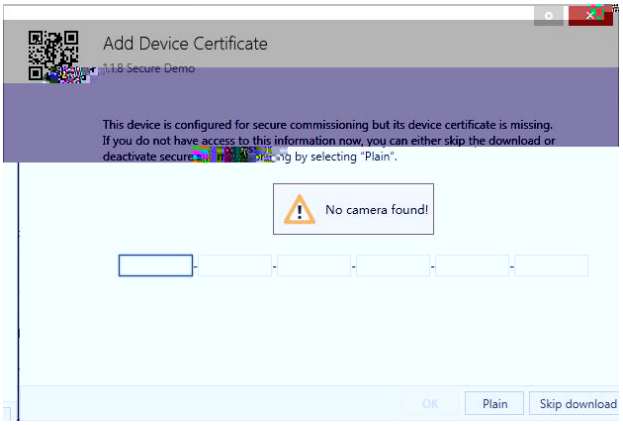
KNX

❖ KNX FDSK =

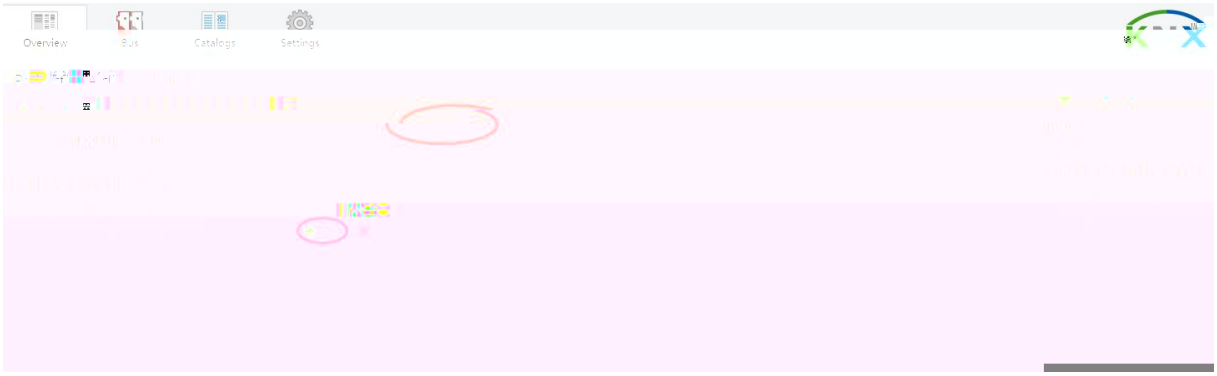
ETS

✧ ETS 5.4.1

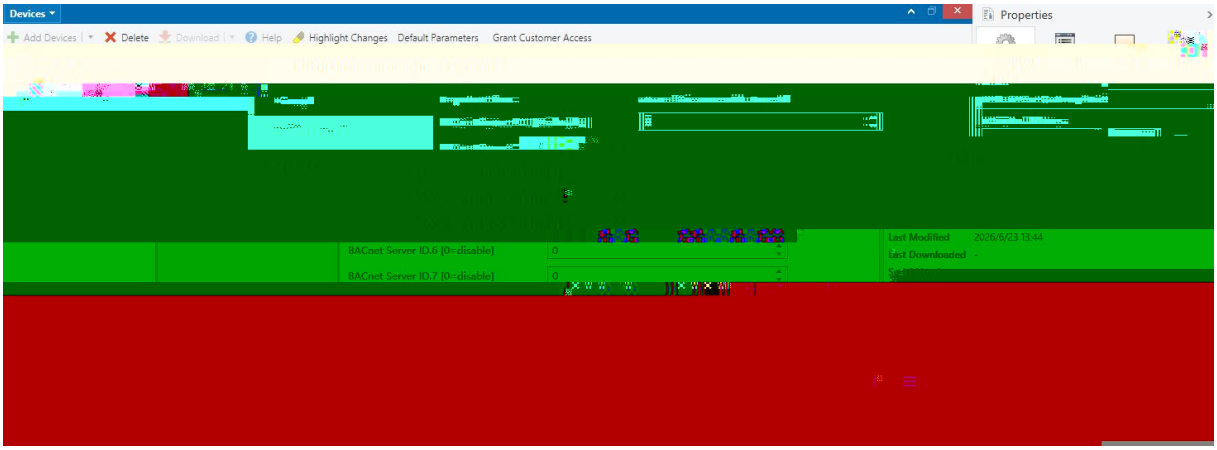
QR



5.4.1



5.4.2 Add Device Certificate



5.4.3 Add Device Certificate

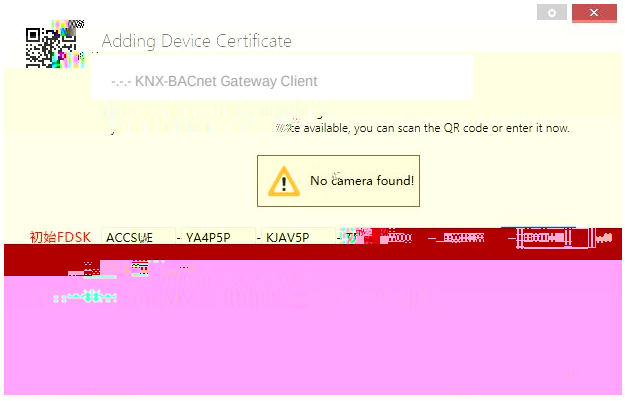
✧ FDSK

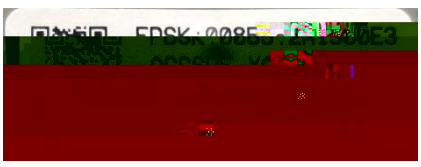
FDSK **KNX**

FDSK FDSK ETS 5.4.4

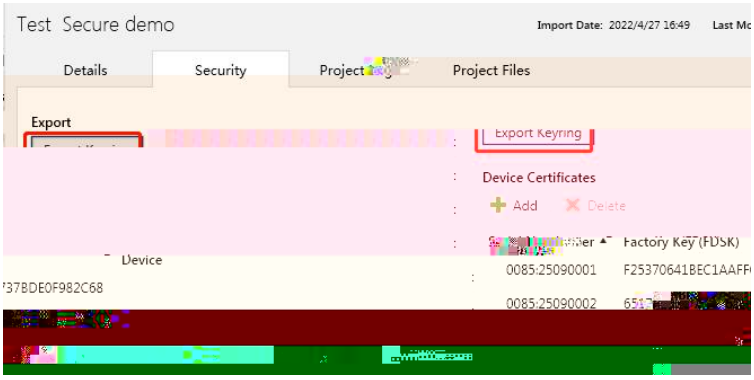
ETS

FDSK





5.4.4



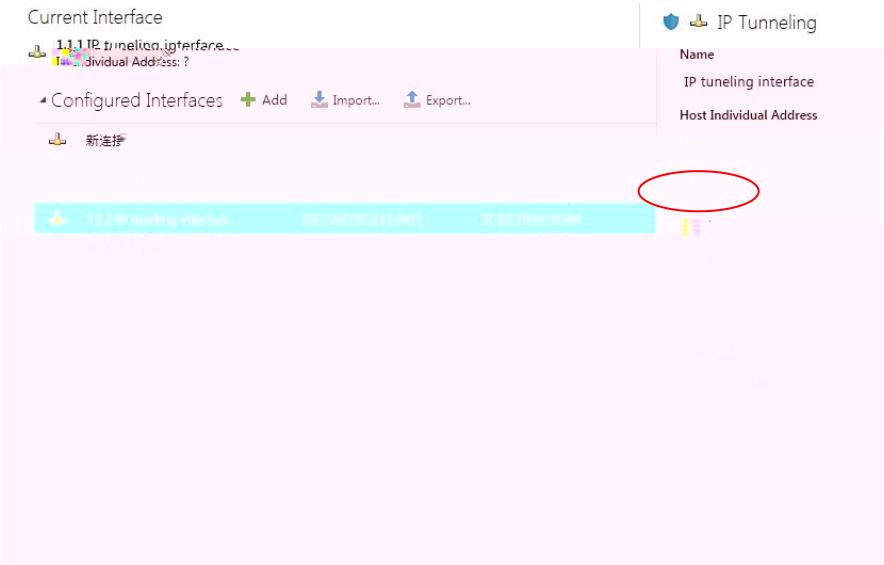
5.4.7

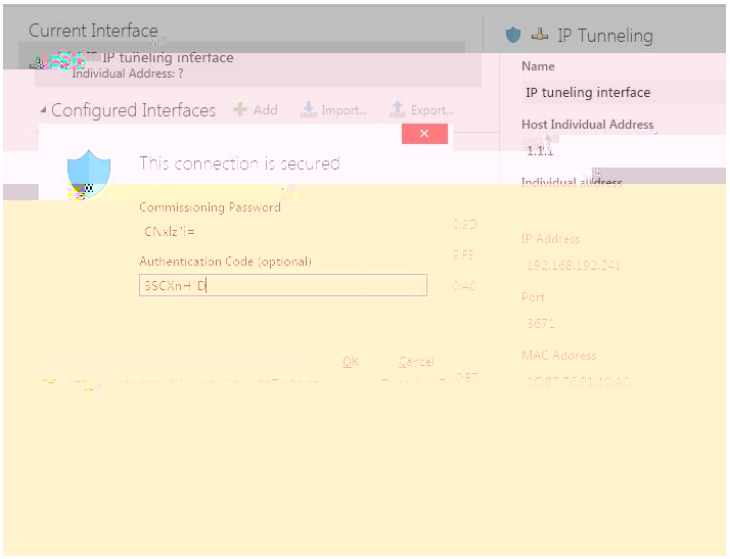
ETS IP

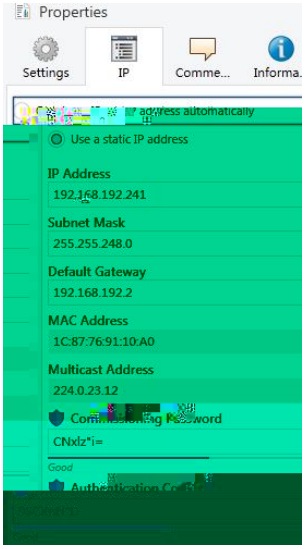
IP 1.1.2 Test

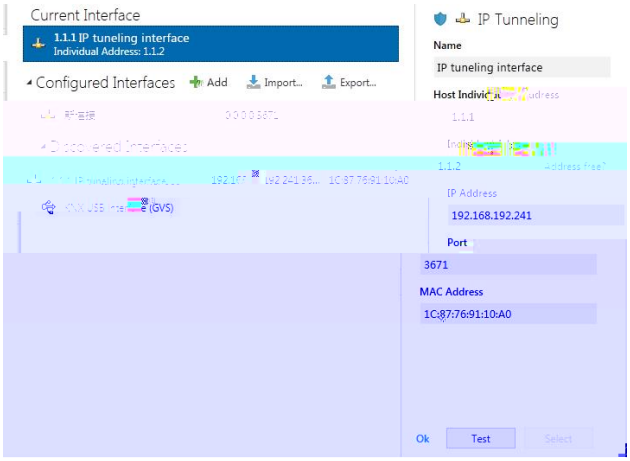
IP OK Test Ok

Select 5.4.8

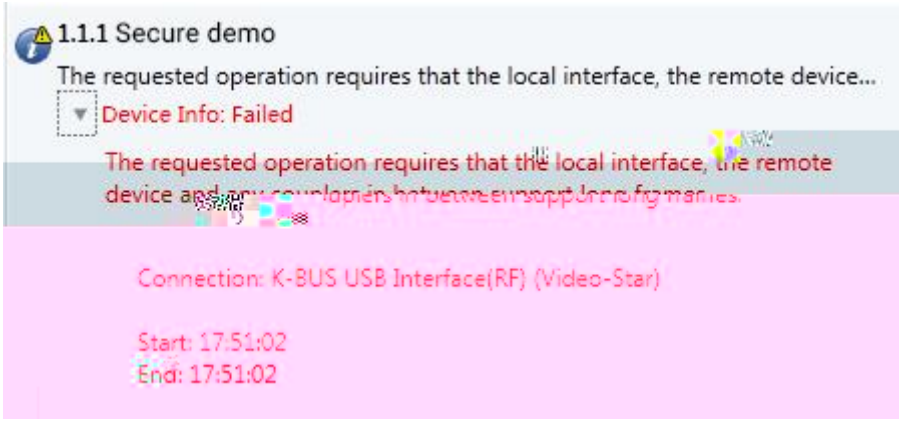



Current Interface
IP tuneling interface
Individual Address: ?
Configured Interfaces
Add
Import...
Export...
This connection is secured
Commissioning Password
Authentication Code (optional)
OK
Cancel
IP Tunneling
Name
IP tuneling interface
Host Individual Address
1.1.1
IP Address
Port
3671
MAC Address


Properties
Settings
IP
Comme...
Informa.
Use a static IP address
IP Address
192.168.192.241
Subnet Mask
255.255.248.0
Default Gateway
192.168.192.2
MAC Address
1C:87:76:91:10:A0
Multicast Address
224.0.23.12
CNxlz"i=
Good


Current Interface
1.1.1 IP tuneling interface
Individual Address: 1.1.2
Configured Interfaces
Add
Import...
Export...
IP Tunneling
Name
IP tuneling interface
IP Address
192.168.192.241
Port
3671
MAC Address
1C:87:76:91:10:A0
Ok
Test

5.4.8


1.1.1 Secure demo
The requested operation requires that the local interface, the remote device...
Device Info: Failed
The requested operation requires that the local interface, the remote device
Connection: K-BUS USB Interface(RF) (Video-Star)
Start: 17:51:02
End: 17:51:02

5.4.9

5.5.

KNX ETS

ETS

ETS

:

- IP IP
- (Tunneling)

- ETS FDSK
-

:

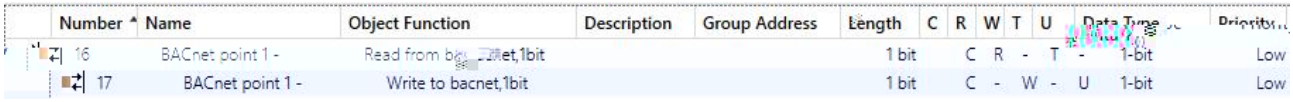
-

- FDSK FDSK

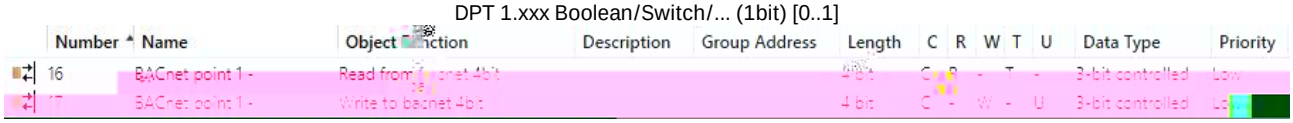
C **W** **R**

T **U**

6.1. BACnet point



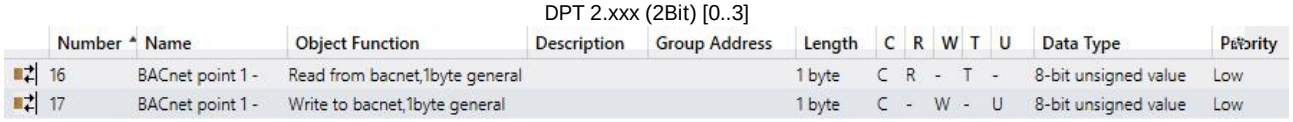
DPT 1.xxx Boolean/Switch/... (1bit) [0..1]



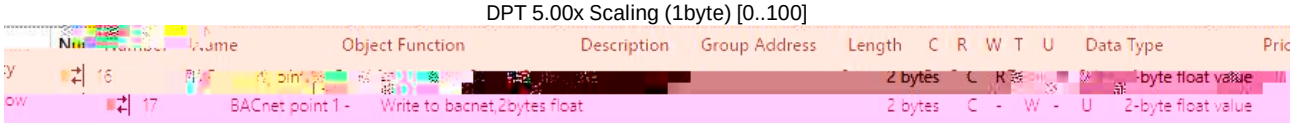
DPT 3.xxx B1U3 (4bit) [0..16]



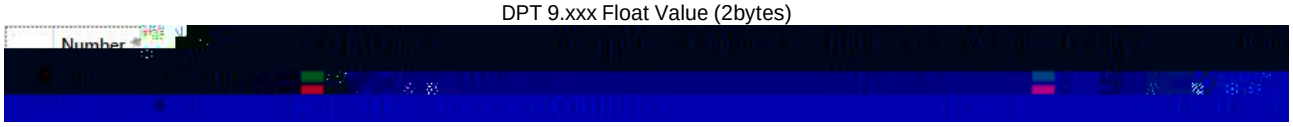
DPT 2.xxx (2Bit) [0..3]



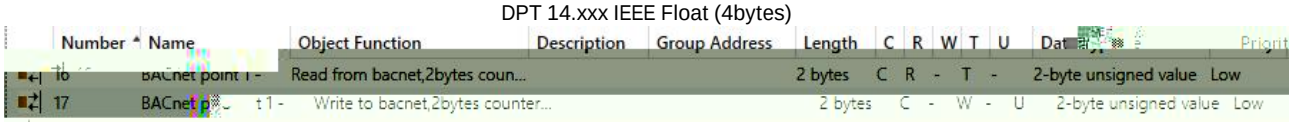
DPT 5.00x Scaling (1byte) [0..100]



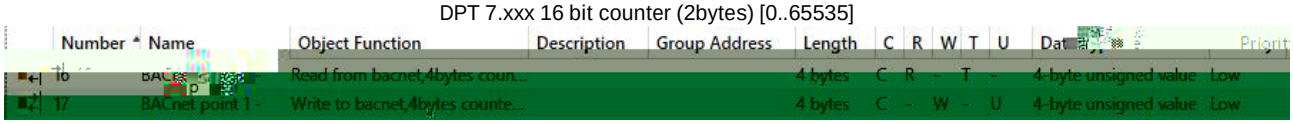
DPT 9.xxx Float Value (2bytes)



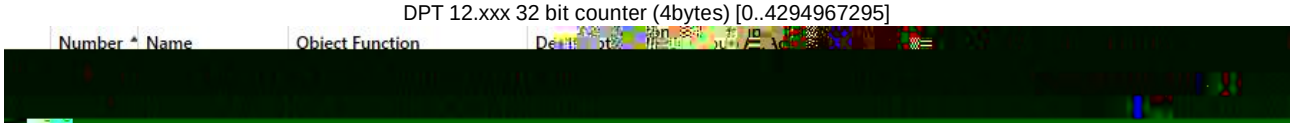
DPT 14.xxx IEEE Float (4bytes)



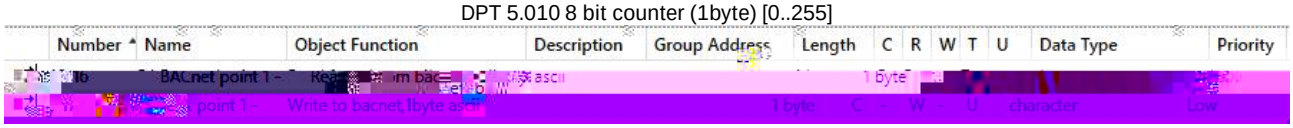
DPT 7.xxx 16 bit counter (2bytes) [0..65535]



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



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



DPT 4.001 ASCII character (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,6bytes RGBW			6 bytes	C	R	-	T	-	Colour RGBW	Low
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



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



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



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	BACnet point 1 -	Read from bacnet,4bytes coun...			4 bytes	C	R	-	T		4-byte signed value	Low
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 alue
				2b te	9.*2-b te float alue
				4b te	14.*4-b te float alue
				2b te	7.*2-b te unsigned alue
16	read from bacnet, ...	BACnet point 1 -		4b tes C,T,R	12*4-b te unsigned alue
				1b te	5710 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-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