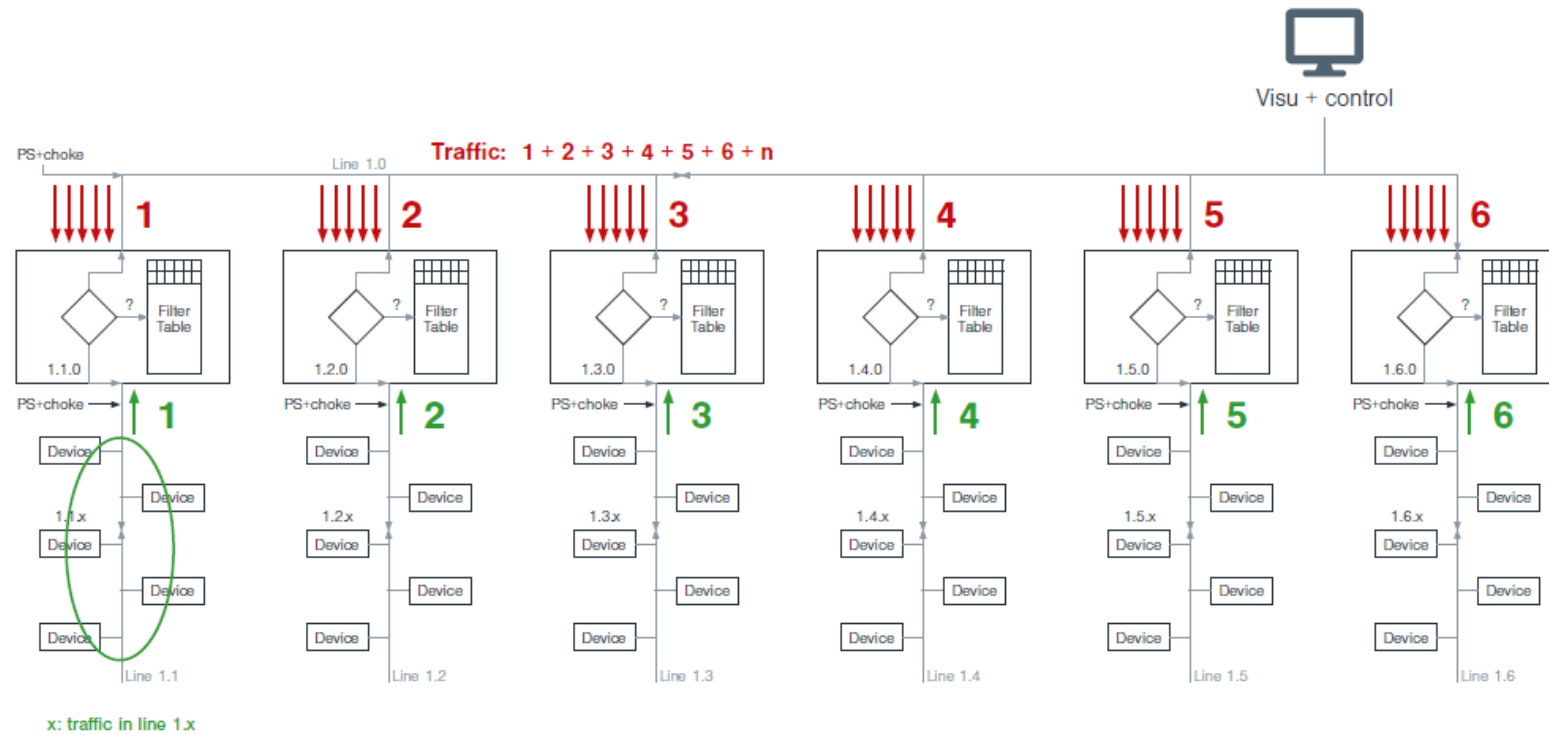


KNX Integration

NETxAutomation Online Training

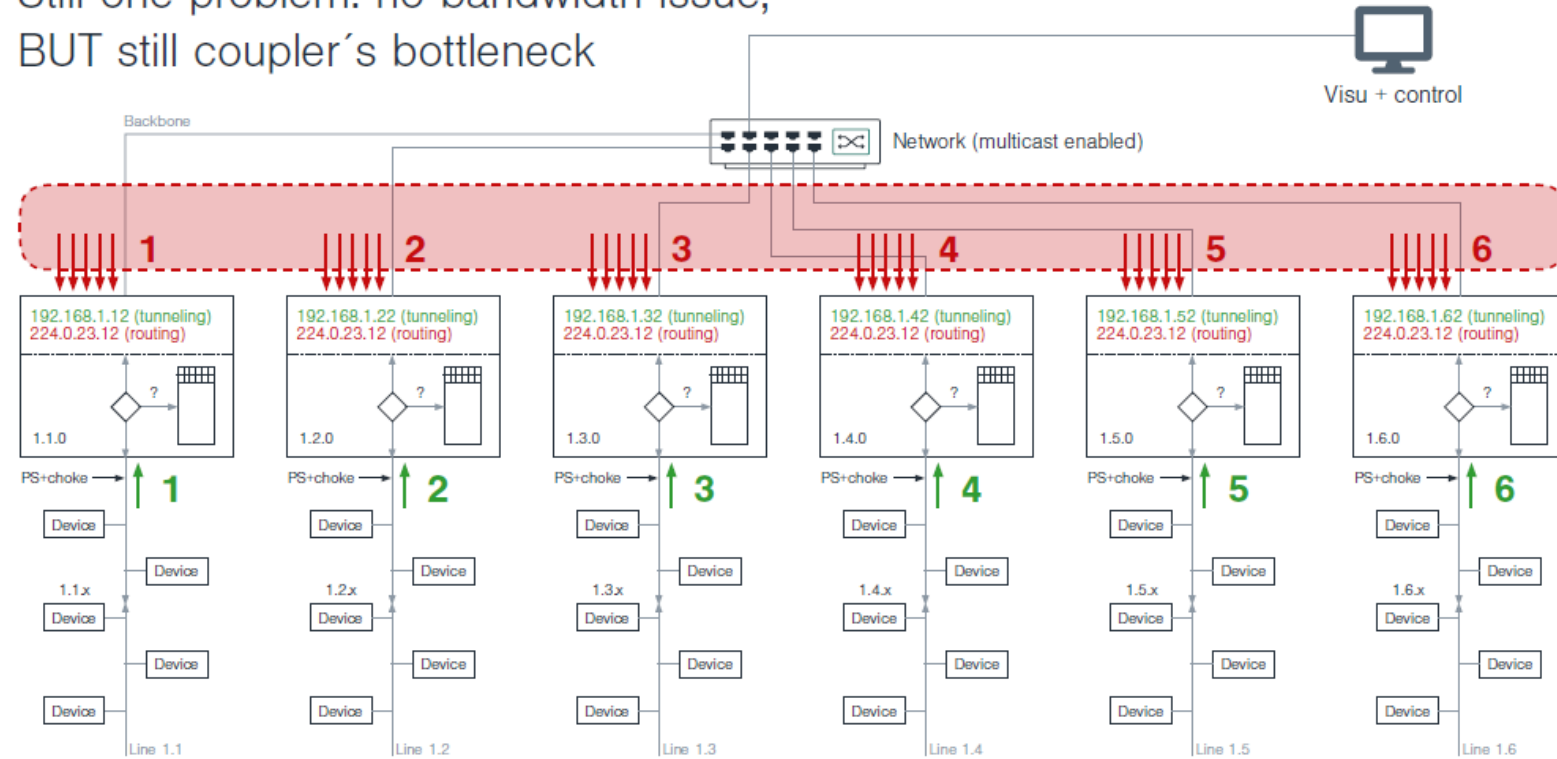
Scenario #1: TP classical configuration (TP coupling)

Two problems: bandwidth issues + coupler bottleneck



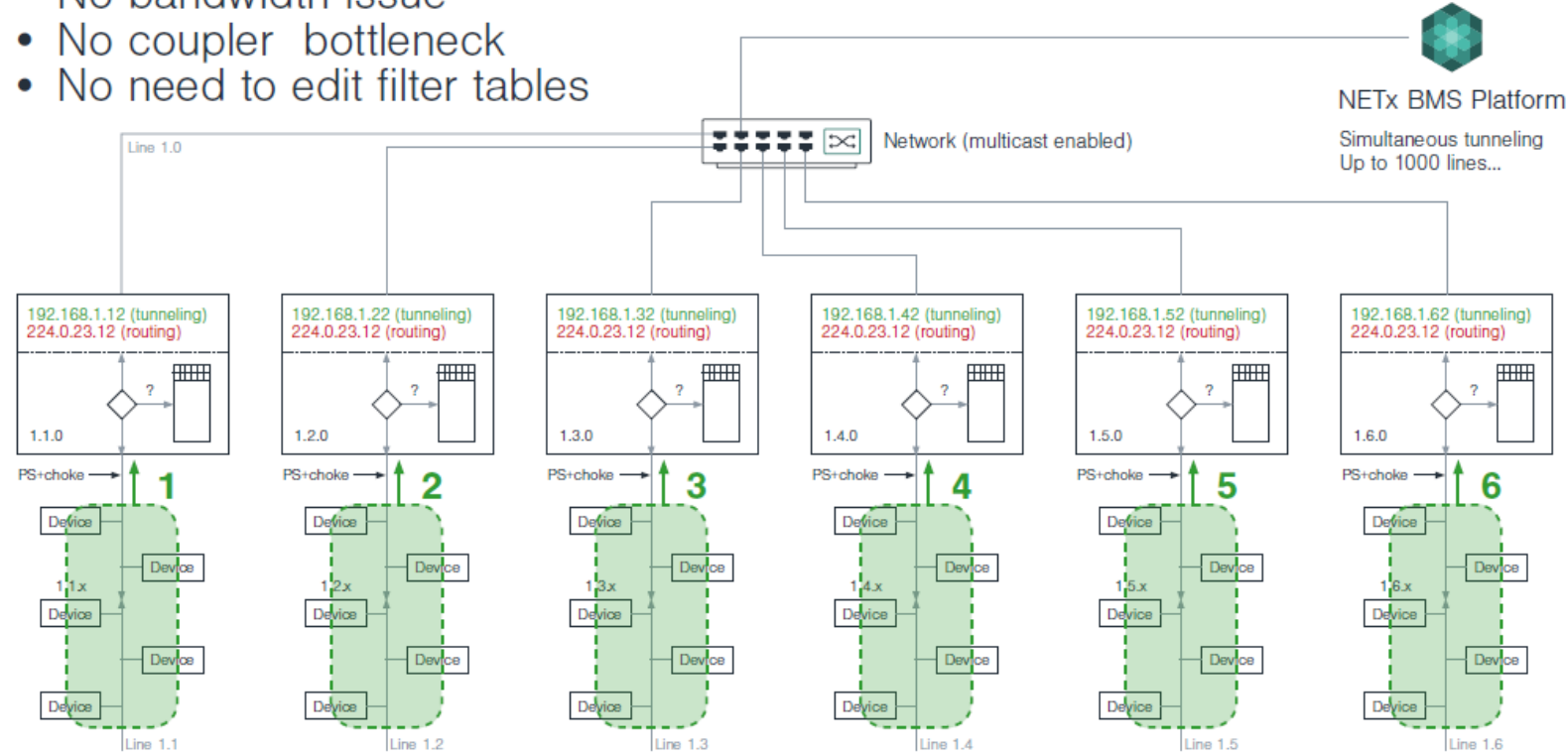
Scenario #2: IP classic configuration (IP routing multicast)

Still one problem: no bandwidth issue,
BUT still coupler's bottleneck



Scenario #3: IP configuration including NETx Platform (IP routers)

- No bandwidth issue
- No coupler bottleneck
- No need to edit filter tables



Scenario #3: IP configuration including NETx BMS Platform (IP routers)



NETx BMS Platform

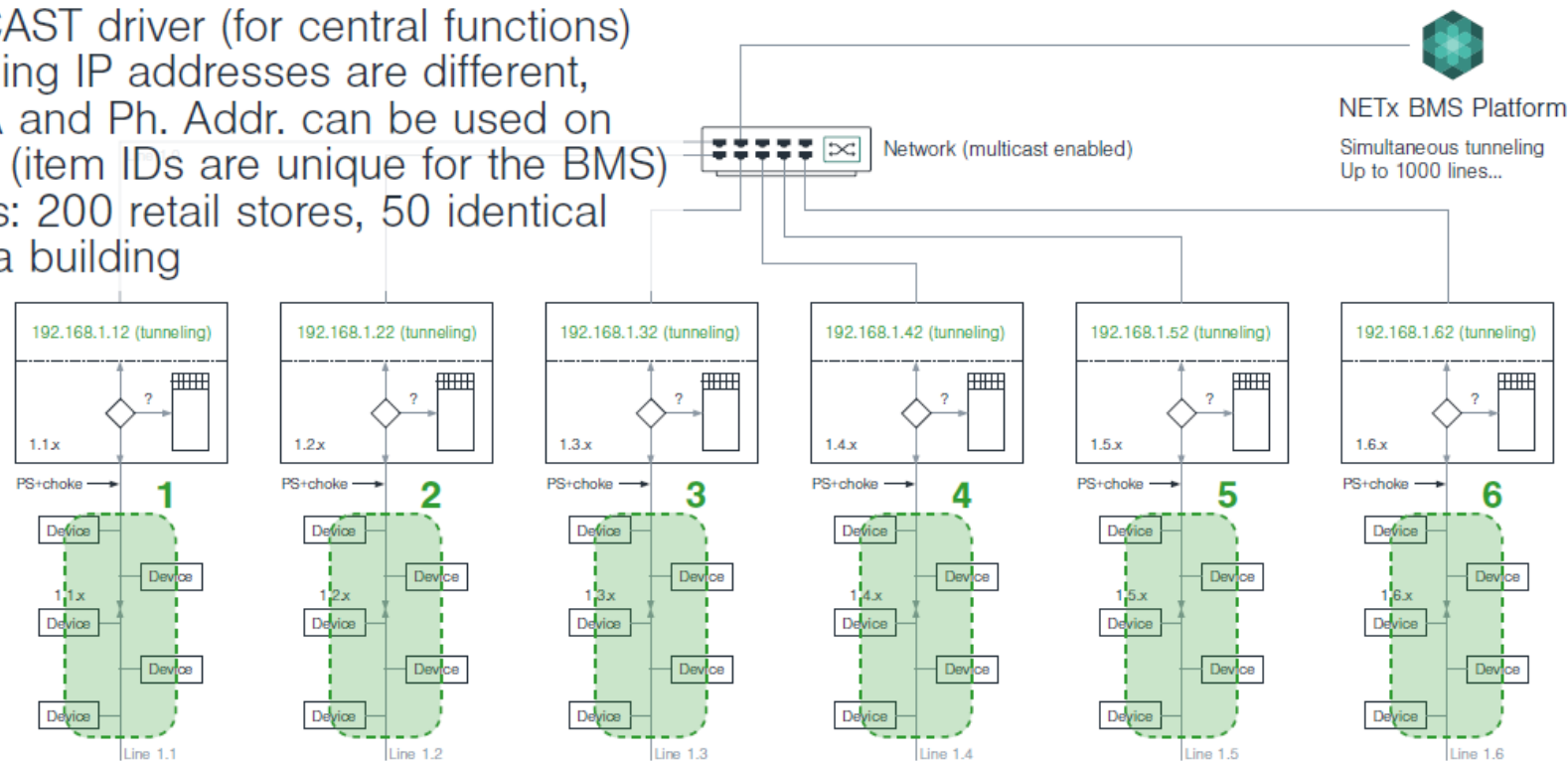
Item Tree		
Item	Description	Value
Today		
VAR		
VIRTUAL		
XCOMMAND		
XCON		
XIO		
BACnet		
KNX		
BROADCAST	IP: BROADCAST, DESC: NETxKN...	
Demo Case Small Room 101 Router	IP: 172.16.3.1, DESC: NETxKN...	
GATEWAY		True
Status	KNX Gateway status number	0
05 - Floor1		
0 - Lighting		
000	Room101 Dimming - Switch	True
001	Room101 Dimming - Switch ...	True
002	Room101 Dimming - Rel Dim...	???
002 - SEND	Trigger to send the KNX telegr...	False
002.Control	Room101 Dimming - Rel Dim...	???
002.StepCode	Room101 Dimming - Rel Dim...	???
003	Room101 Dimming - Abs D...	???
004	Room101 Dimming - Brightn...	100
1 - HVAC		
2 - Shading		
Devices		
Demo Case Small Room 102 Router	IP: 172.16.3.2, DESC: NETxKN...	
Demo Case Small Room 103 Router	IP: 172.16.3.3, DESC: NETxKN...	
Demo Case Small Room 104 Router	IP: 172.16.3.4, DESC: NETxKN...	
Demo Case Small Room 105 Router	IP: 172.16.3.5, DESC: NETxKN...	
Demo Case Small Room 106 Router	IP: 172.16.3.6, DESC: NETxKN...	
Demo Case Small Room 107 Router	IP: 172.16.3.7, DESC: NETxKN...	
Demo Case Small Room 108 Router	IP: 172.16.3.8, DESC: NETxKN...	
Demo Case Small Room 109 Router	IP: 172.16.3.9, DESC: NETxKN...	
Demo Case Small Room 110 Router	IP: 172.16.3.10, DESC: NETxKN...	

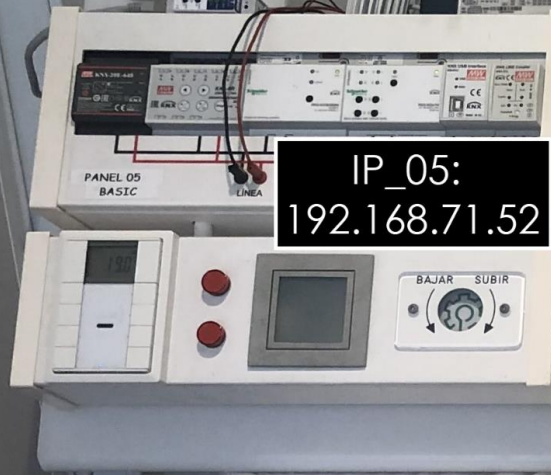
Item tree:

- The NETx BMS Platform need to know - for every KNX GA or Ph.Addr. - which IP tunneling router or interface has to be used (address mapping)
- Export from ETS -> Import into NETx BMS Platform
- Examples of item IDs:
For a KNX GA:
NETx/XIO/KNX/Router1/1/1/1
For a KNX Ph.Addr.:
NETx/XIO/KNX/Router1/1.1.1

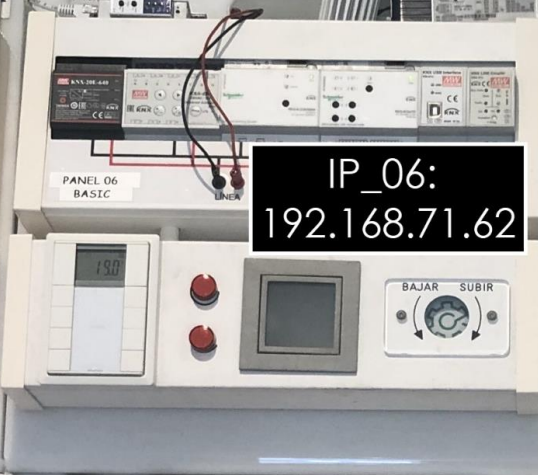
Scenario #4: IP configuration including NETx BMS Platform (IP interfaces)

- BROADCAST driver (for central functions)
- As tunneling IP addresses are different, same GA and Ph. Addr. can be used on each line (item IDs are unique for the BMS)
- Examples: 200 retail stores, 50 identical floors in a building

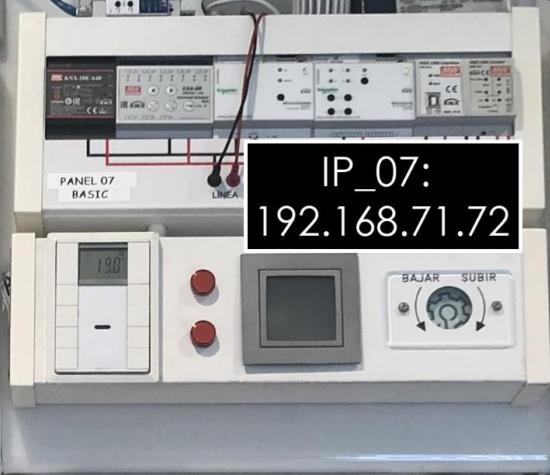




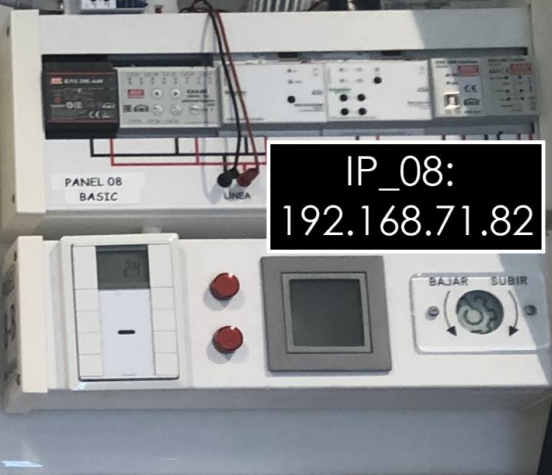
IP_05:
192.168.71.52



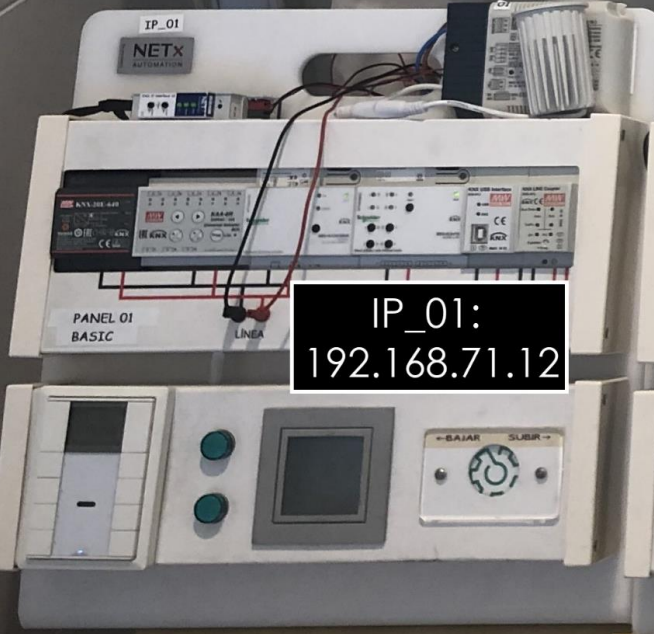
IP_06:
192.168.71.62



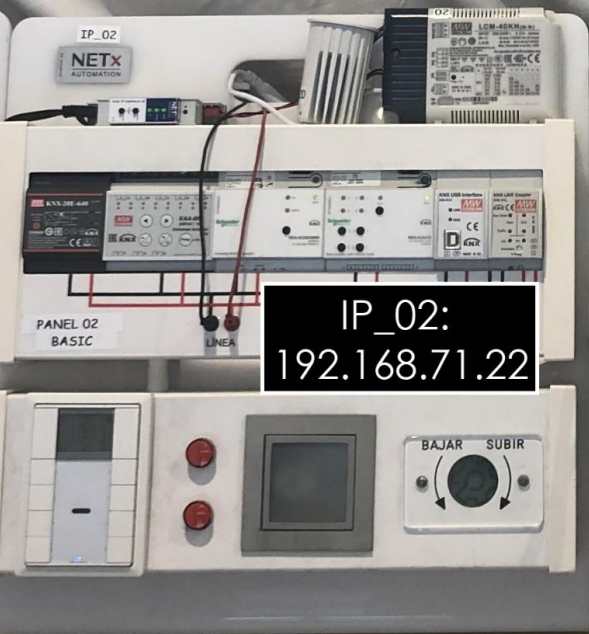
IP_07:
192.168.71.72



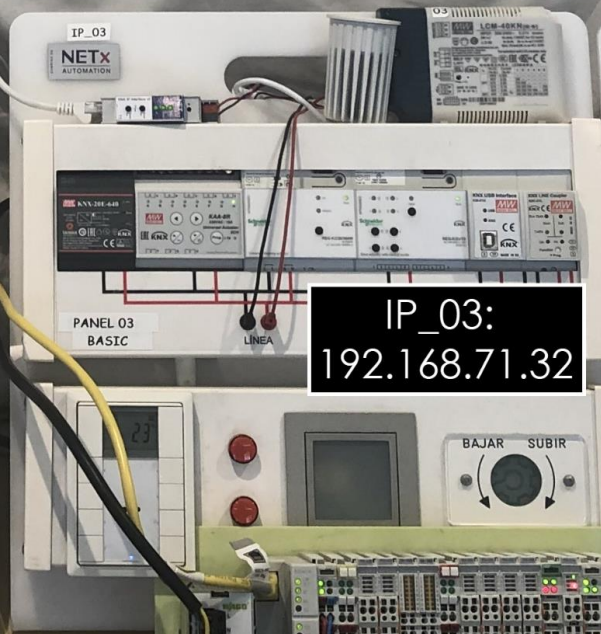
IP_08:
192.168.71.82



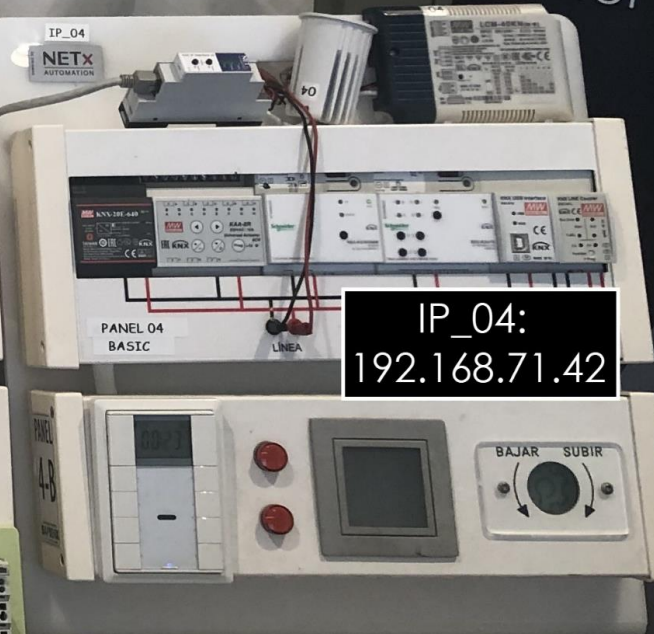
IP_01:
192.168.71.12



IP_02:
192.168.71.22

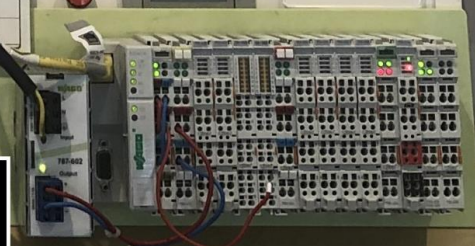


IP_03:
192.168.71.32



IP_04:
192.168.71.42

Bacnet/IP:
192.168.71.7





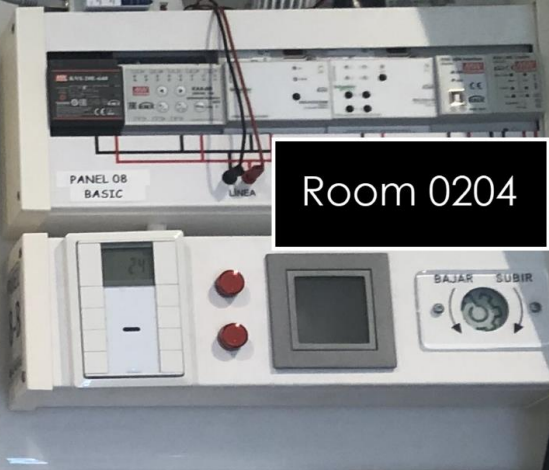
Room 0201



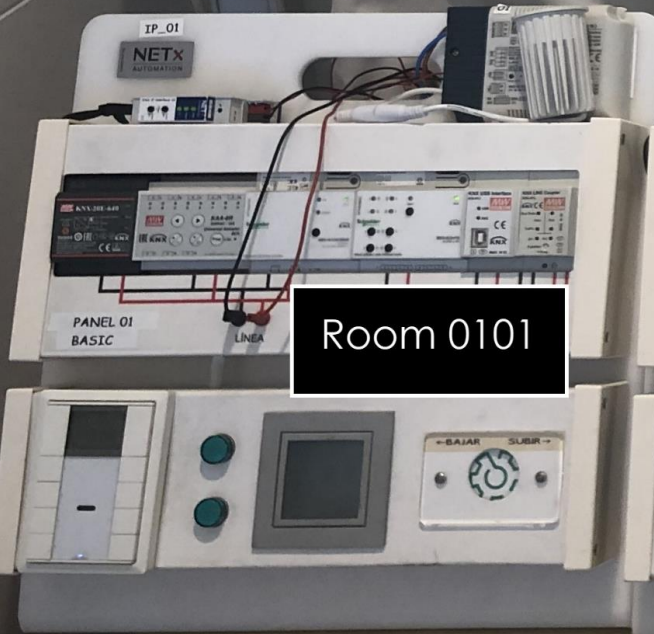
Room 0202



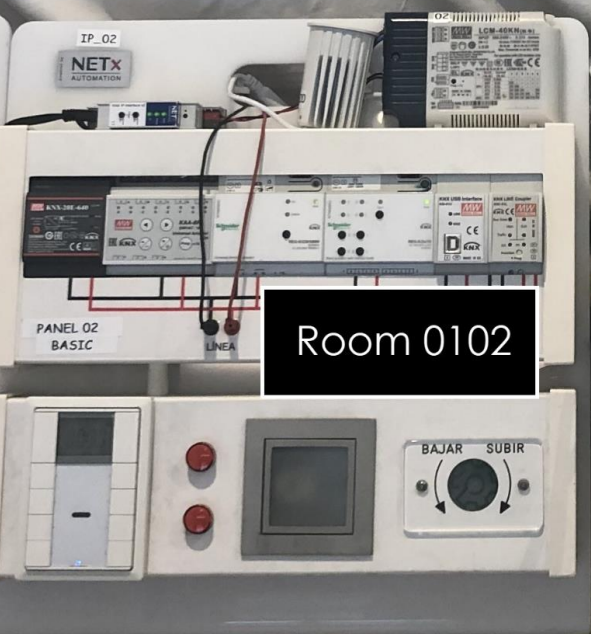
Room 0203



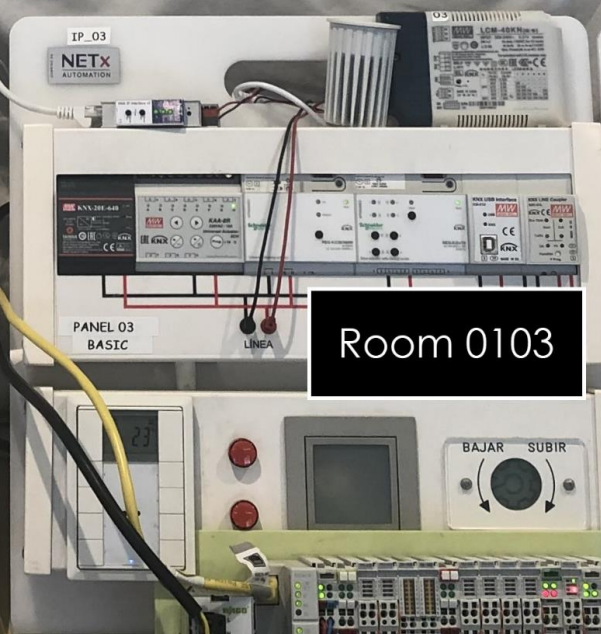
Room 0204



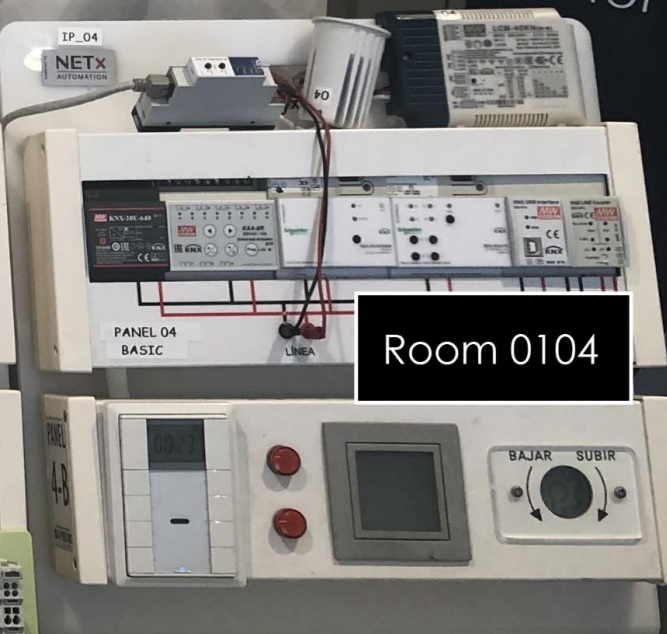
Room 0101



Room 0102



Room 0103



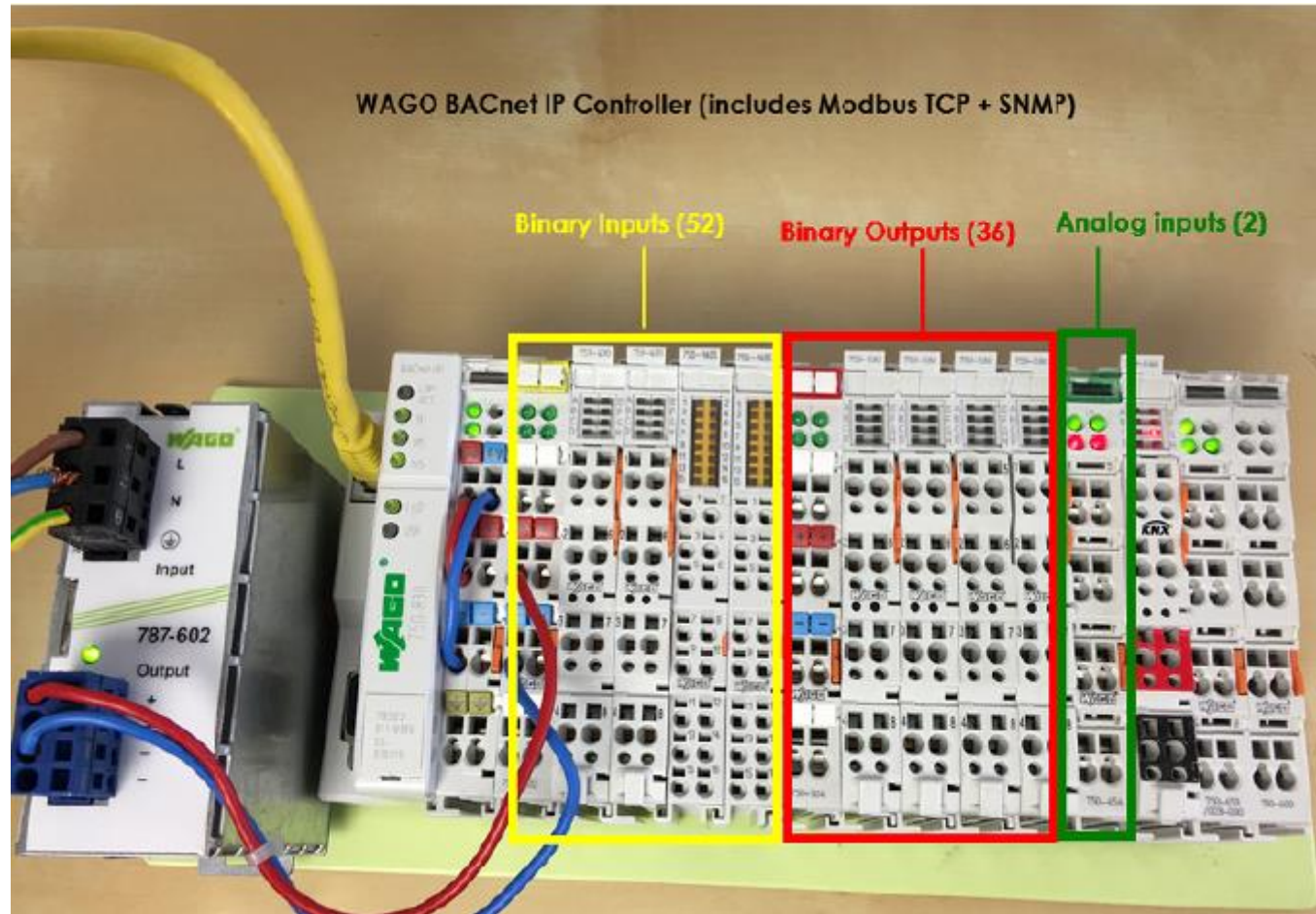
Room 0104

WAGO BACnet IP Controller (includes Modbus TCP + SNMP)

Binary Inputs (52)

Binary Outputs (36)

Analog inputs (2)



Get in touch with us



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
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