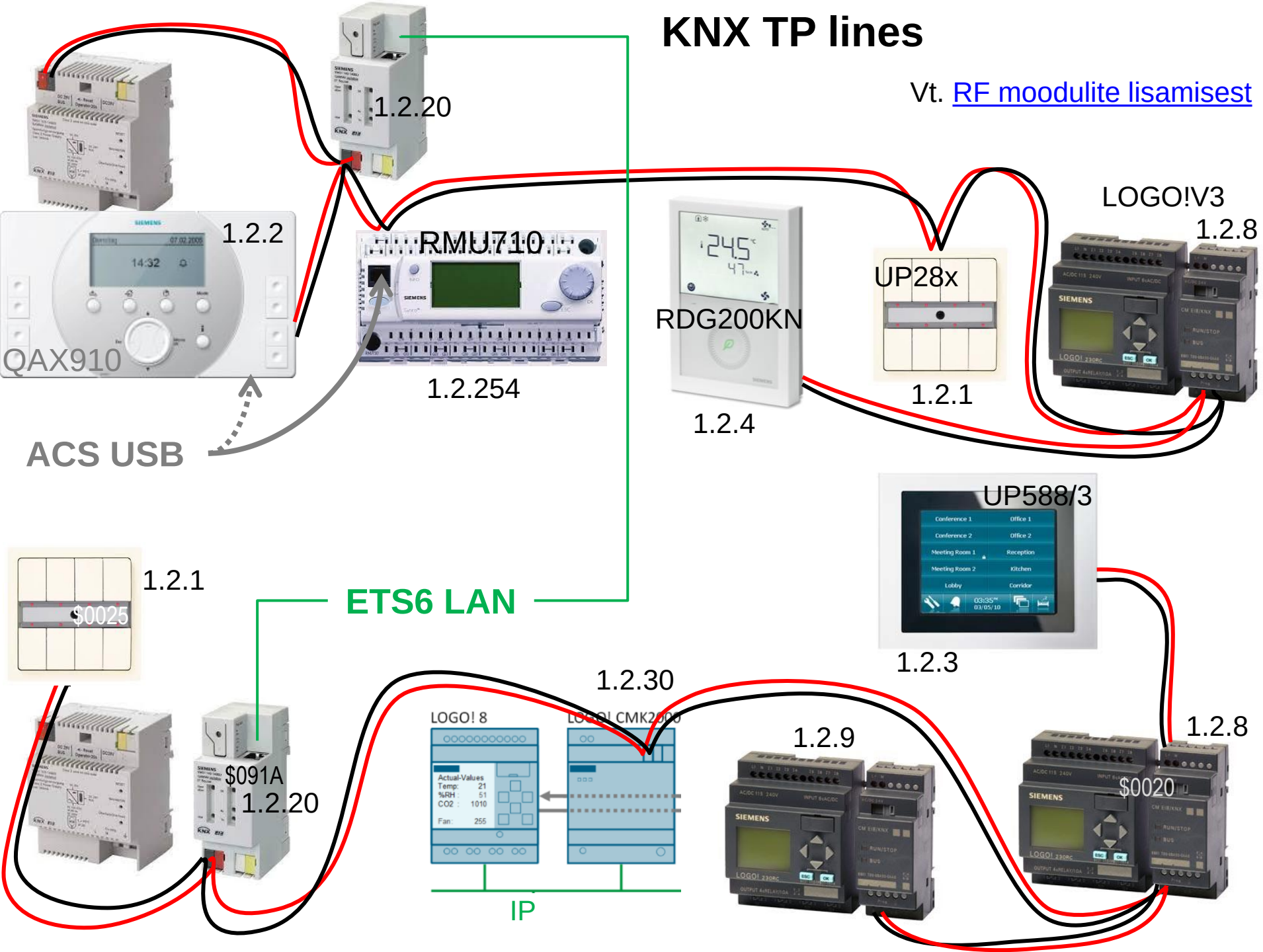
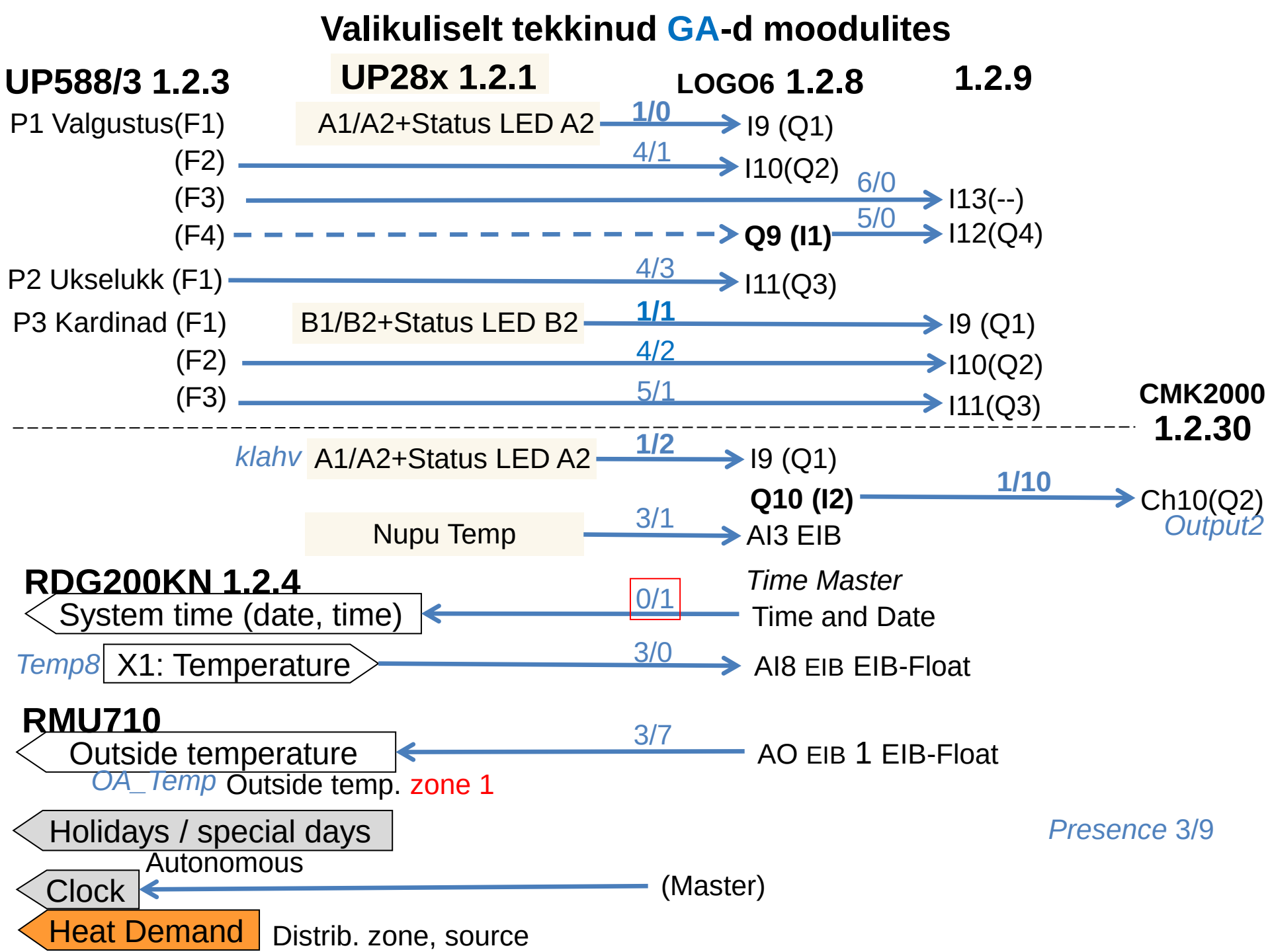
KNX TP lines

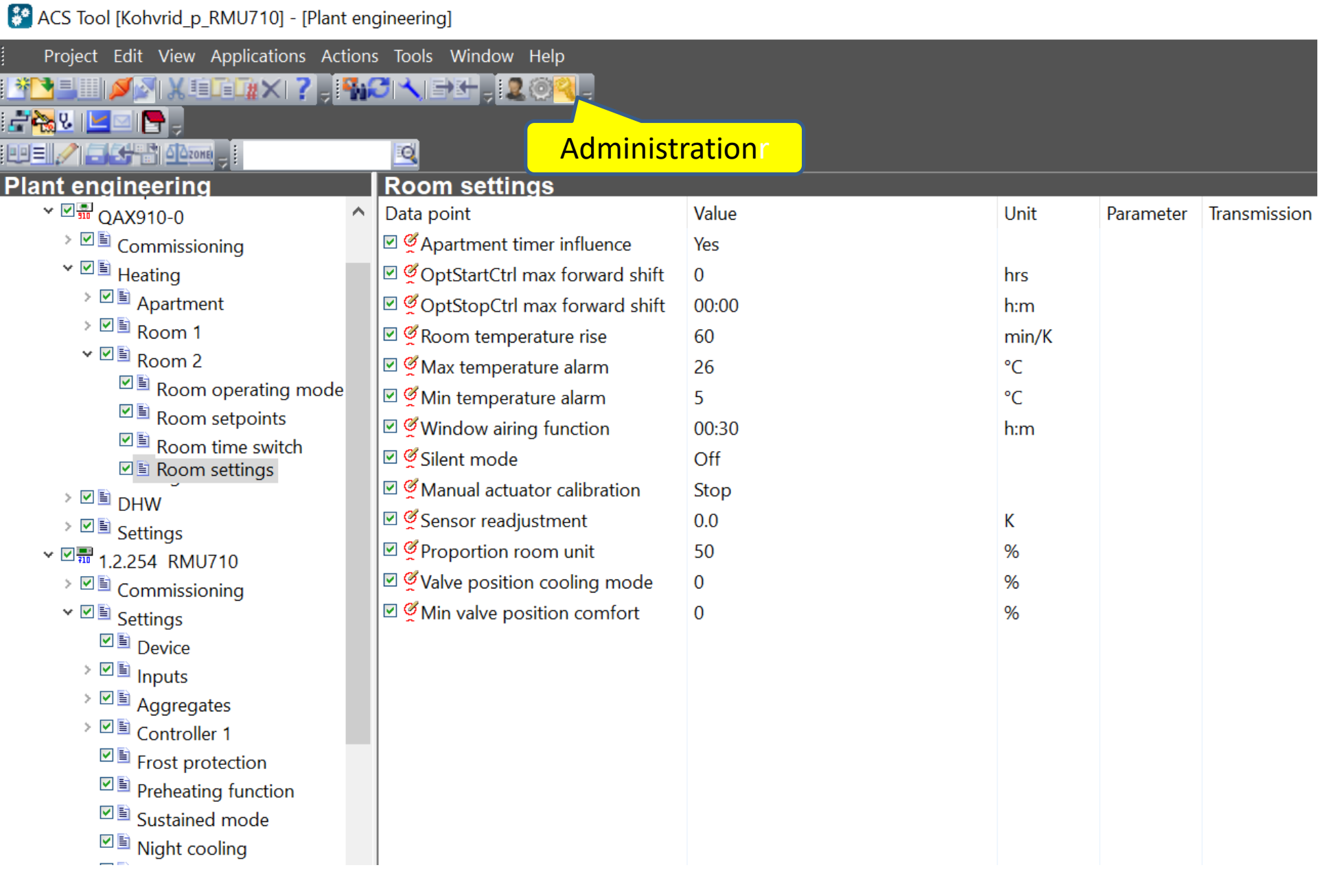
Vt. RF moodulite lisamisest




Valikuliselt tekkinud GA-d moodulites
UP588/3 1.2.3
UP28x 1.2.1
LOGO6 1.2.8
1.2.9
P1 Valgustus(F1)
A1/A2+Status LED A2
1/0
I9 (Q1)
(F2)
4/1
I10(Q2)
(F3)
6/0
I13(--)
(F4)
Q9 (I1)
5/0
I12(Q4)
P2 Ukselukk (F1)
4/3
I11(Q3)
P3 Kardinad (F1)
B1/B2+Status LED B2
1/1
I9 (Q1)
(F2)
4/2
I10(Q2)
(F3)
5/1
I11(Q3)
CMK2000
1.2.30
klahv
A1/A2+Status LED A2
1/2
I9 (Q1)
Q10 (I2)
1/10
Ch10(Q2)
Output2
Nupu Temp
3/1
AI3 EIB
RDG200KN 1.2.4
Time Master
System time (date, time)
0/1
Time and Date
Temp8
X1: Temperature
3/0
AI8 EIB EIB-Float
RMU710
Outside temperature
3/7
AO EIB 1 EIB-Float
OA_Temp Outside temp. zone 1
Holidays / special days
Presence 3/9
Autonomous
Clock
(Master)
Heat Demand
Distrib. zone, source

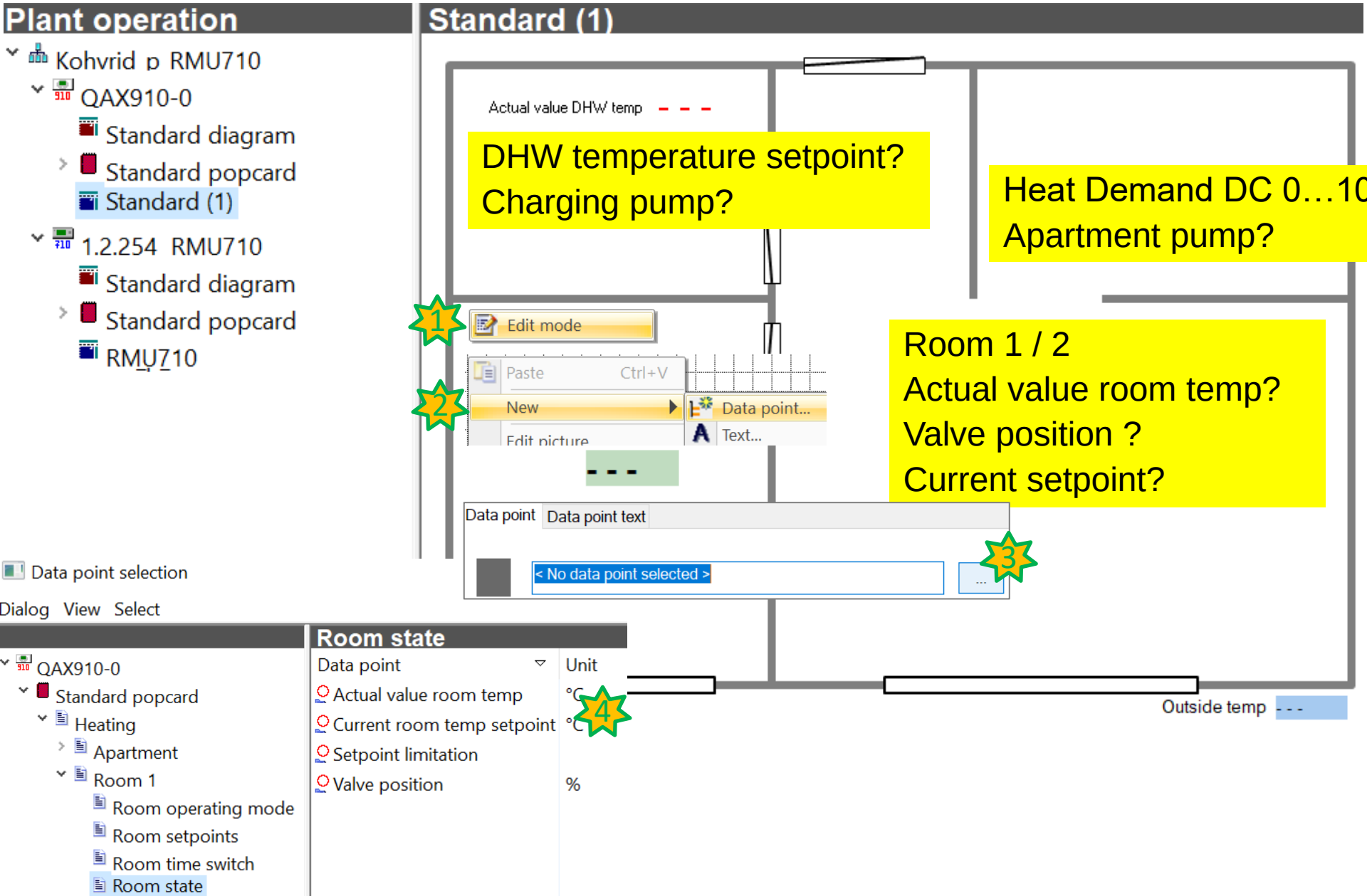
ACS Plant engineering

ACS 790 -> ACS Tool

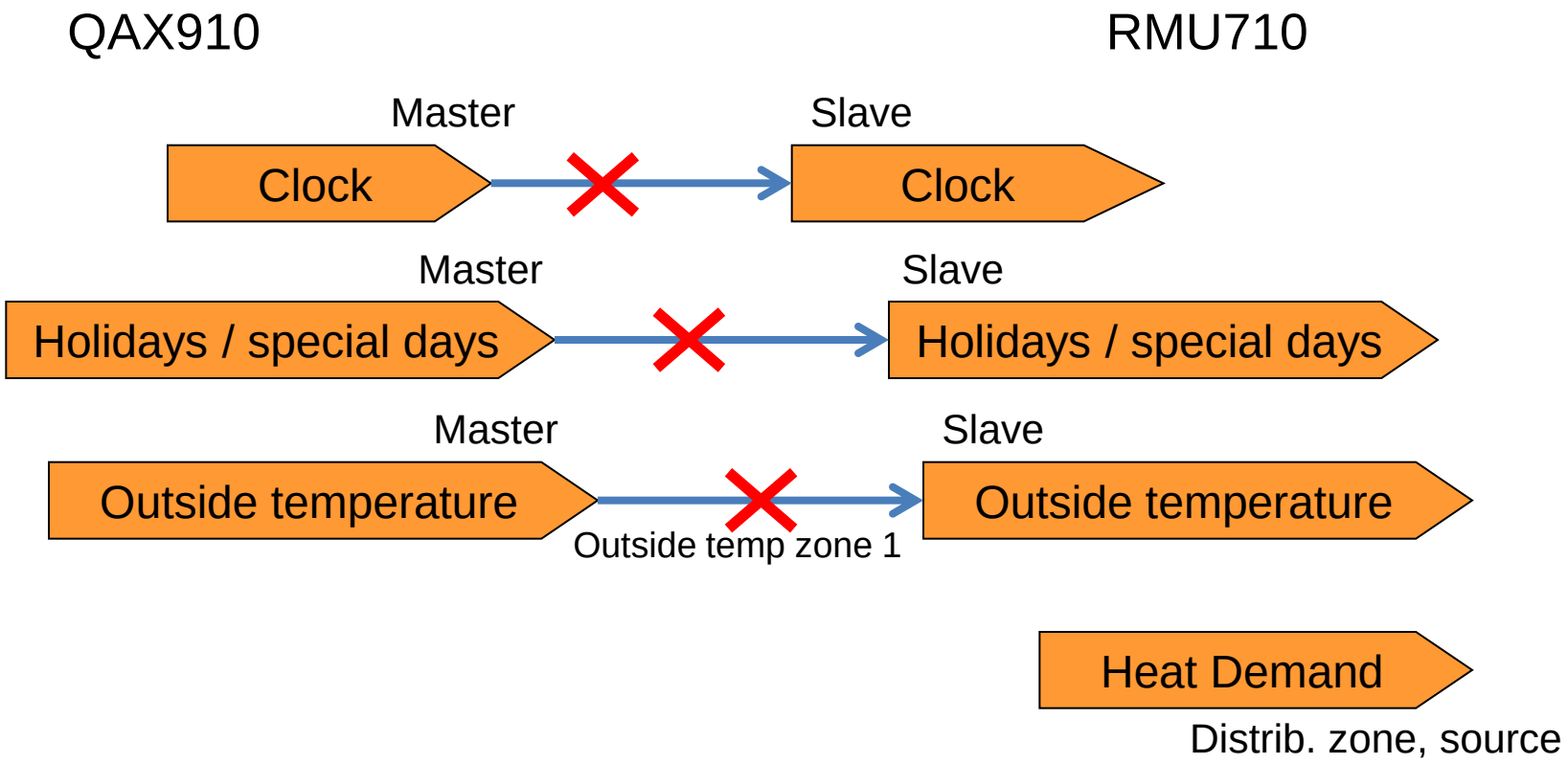


ACS Plant Operation

Lisa ruumide plaaniga vaatel
vähemalt järgmised kollasega märgitud datapointid !



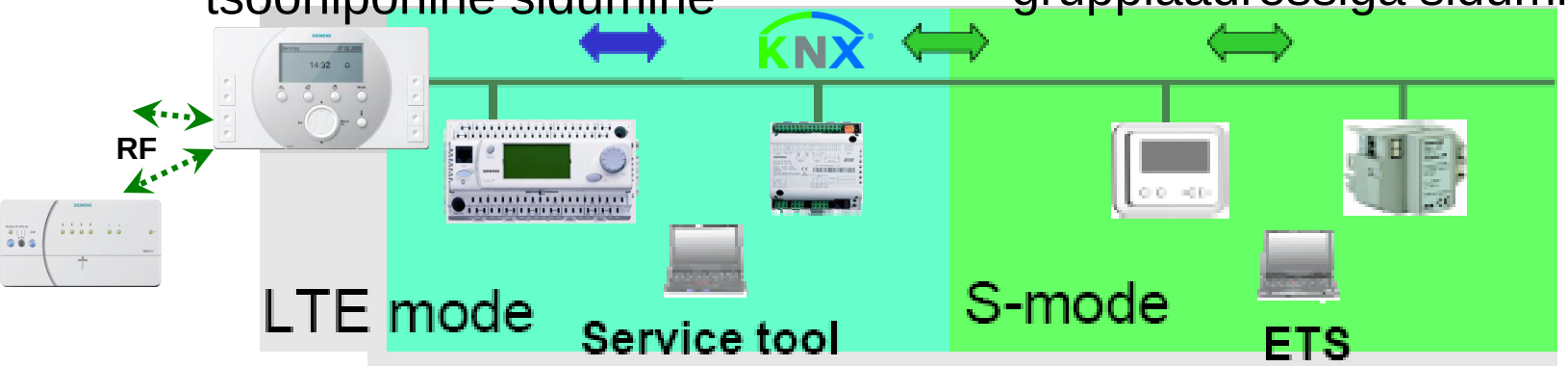
KNX LTE logical tags



KNX võrgu/seadmete funktsioonide kofigureerimine

Synco 700 HVAC controllers
Room controllers (RXB fancoil)
Synco Living
tsoonipõhine sidumine

Elektriseadmete juhtimise
andur/täitur- seadmed/paneelid
gruppiaadressiga sidumine



ACS Service Tool
(+ OCI700 adapter)

Töörežiimide muutmine kogu hoonele või ruumide kaupa.

Sisekliima seadesuuruste määramine kogu hoonele või ruumide kaupa.

Näidud ja veateated.

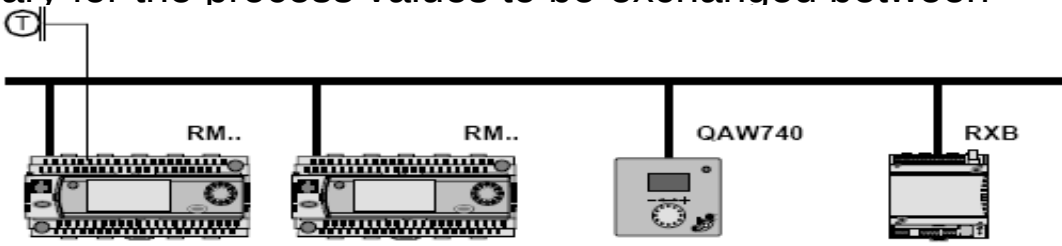
Valgustusgruppide lülimine ja dimming. Aknakatete juhtimine. Ajagraafikud. Indikatsioon/näit (aknad, uksed, tuul, päike, tuleoht, valvesign.)

Erinevad koostoime stsenaariumid

LTE Communication

In LTE-mode (LTE = Logical Tag Extended) the communication bindings between data points are created by means of logical tags. This is the equivalent of the zone addresses in Synco. Zone addressing, i.e. the setting of a zone address is also referred to as "binding".

A common zone address is all that is necessary for the process values to be exchanged between the devices in a zone.



One "Geographical zone (apartment)" consists of parts of buildings which are grouped together from an operational point of view and which obey the following criteria:

− Same room operating mode

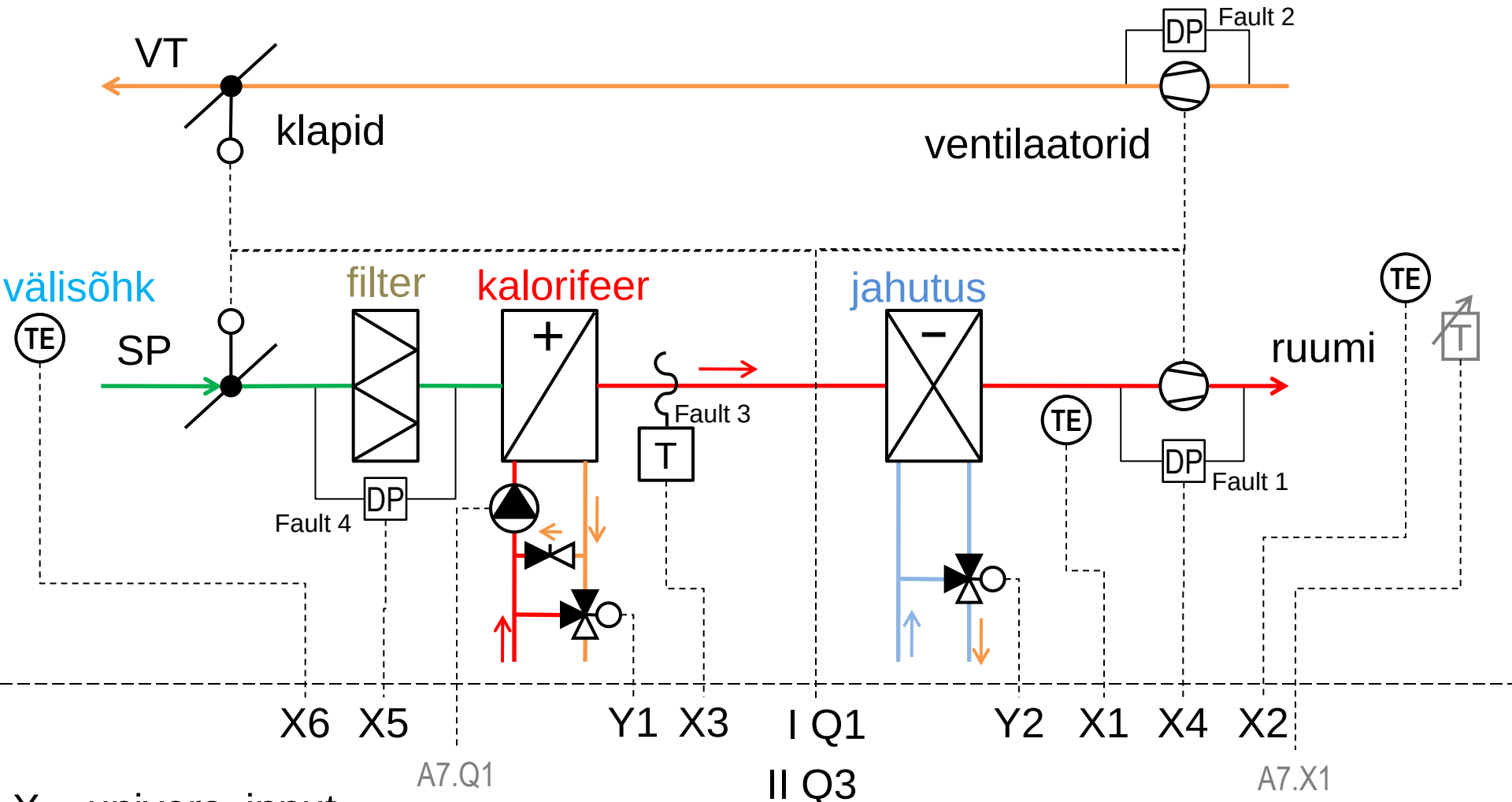
− Same room temperature (setpoint, actual value).

Based on this definition, the "geographical zone (apartment)" might better be referred to as an "operating zone".

Device address	1	2	9	44
Process value	Outside temperature	Outside temperature		
Zone: Address	Outside temp zone: 2	Outside temp zone: 2		
Process value		Room temperature	Room temperature	
Zone: Address		Geogr zone: 1	Geogr zone: 1	
Process value	Heat requis	Heat demand		Heat demand
Zone: Address	Heat zone: 1	Heat zone: 1		Heat zone: 1
Process value	Time switch value	Time switch value		Time switch value
Time switch operation	Master	Slave		Slave
Zone: Address	Geogr zone: 2	TS slave: 2		TS slave: 2

Only one controller may be the time switch master in any one zone. The setting for the master is "TS slave (apartm) = ---"

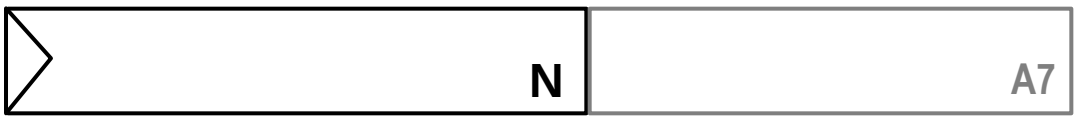
RMU 710 A03



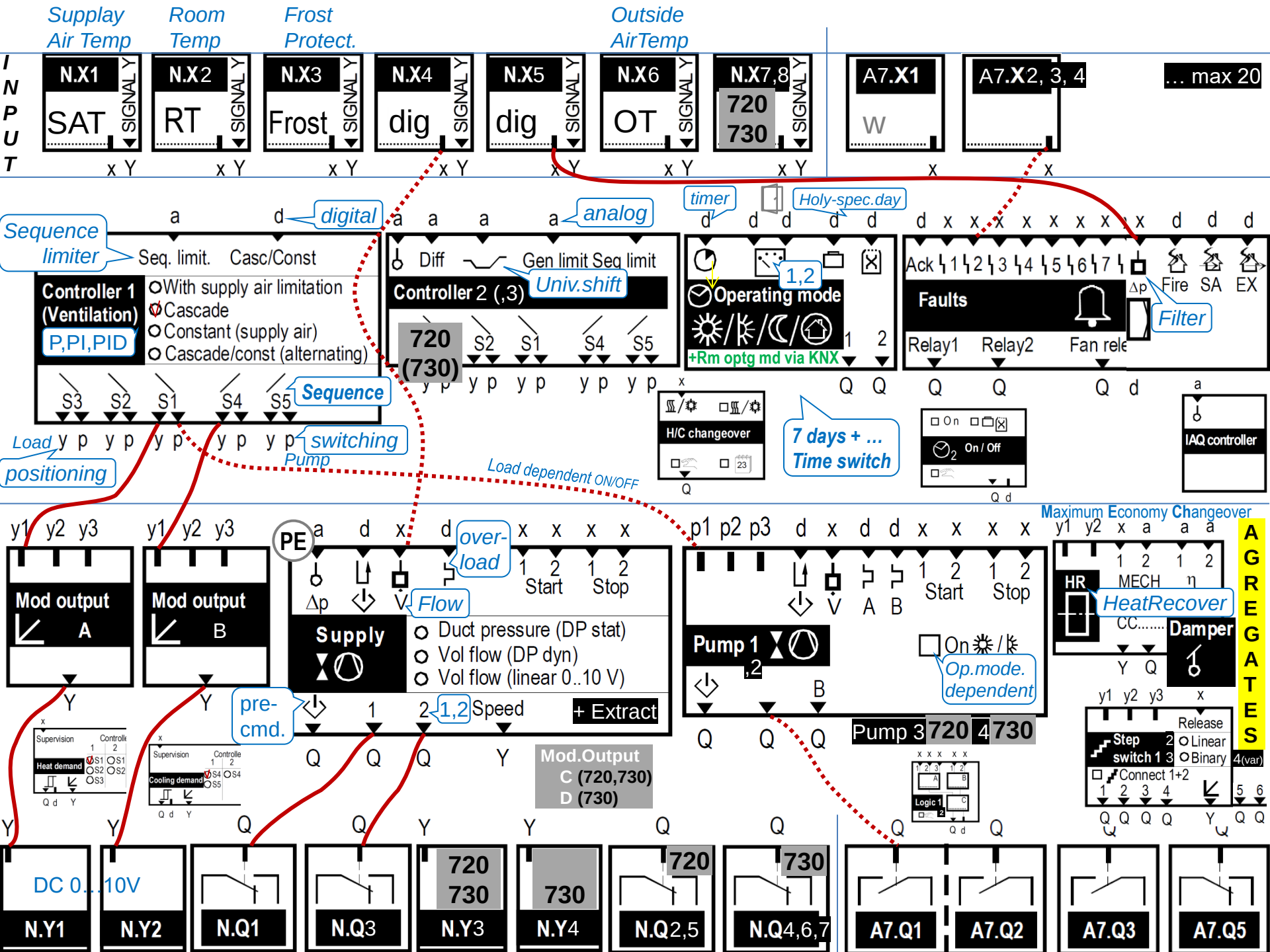
X – univers. input

Y – analog. output

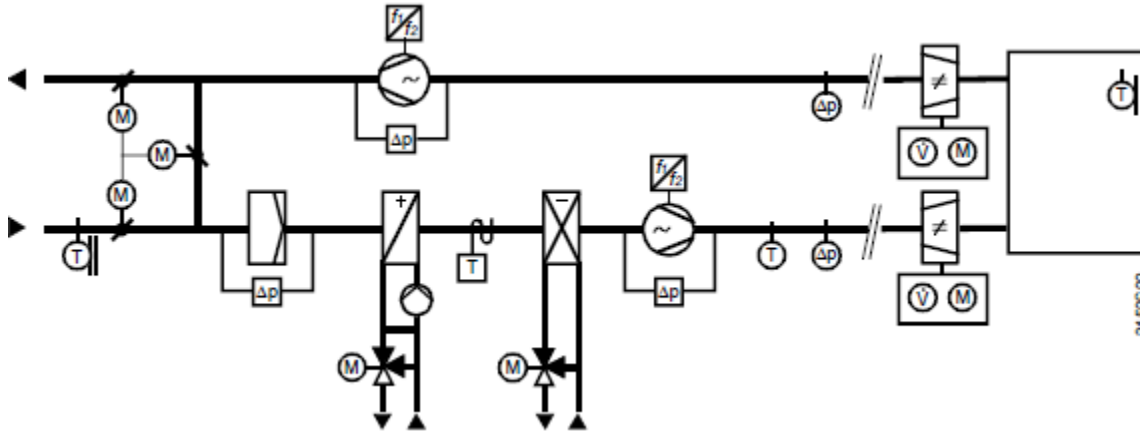
Q – relay output



Extension modules


Supplay Air Temp
Room Temp
Frost Protect.
Outside AirTemp
INPUT
N.X1 SAT SIGNAL Y
N.X2 RT SIGNAL Y
N.X3 Frost SIGNAL Y
N.X4 dig SIGNAL Y
N.X5 dig SIGNAL Y
N.X6 OT SIGNAL Y
N.X7,8 720 730 SIGNAL Y
A7.X1 W
A7.X2, 3, 4
... max 20
digital
analog
timer
Holy-spec.day
Sequence limiter
Seq. limit. Casc/Const
Controller 1 (Ventilation)
P,PI,PID
With supply air limitation
Cascade
Constant (supply air)
Cascade/const (alternating)
Sequence
Diff
Gen limit Seq limit
Controller 2 (,3)
Univ.shift
720 (730)
Operating mode
1,2
+Rm optg md via KNX
Faults
Ack
Fire
SA
EX
Filter
Relay1
Relay2
Fan rele
H/C changeover
7 days + ... Time switch
On / Off
IAQ controller
Load positioning
switching Pump
Load dependent ON/OFF
Maximum Economy Changeover
AGREGATES
Mod output A
Mod output B
PE
over-load
Start
Stop
Flow
Supply
Duct pressure (DP stat)
Vol flow (DP dyn)
Vol flow (linear 0..10 V)
pre-cmd.
1,2 Speed
+ Extract
Mod.Output
C (720,730)
D (730)
Pump 1,2
Op.mode. dependent
Pump 3 720 4 730
HR
MECH
HeatRecover
CC.....
Damper
Step switch 1 3
Release
Linear
Binary
Connect 1+2
4(var)
Supervision
Heat demand
Cooling demand
Logic 1
DC 0...10V
N.Y1
N.Y2
N.Q1
N.Q3
720 730
N.Y3
730
N.Y4
720
N.Q2,5
730
N.Q4,6,7
A7.Q1
A7.Q2
A7.Q3
A7.Q5

RMU 7__ Basic type **P**; Primary air handling

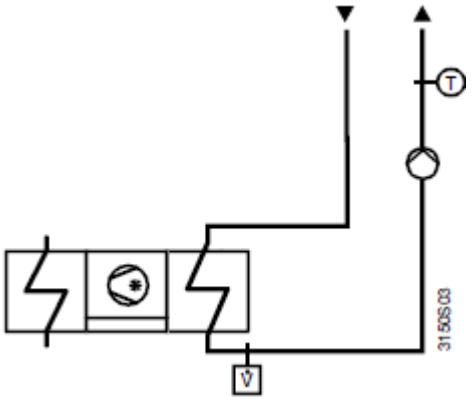


demand-dependent

supply air temp controller

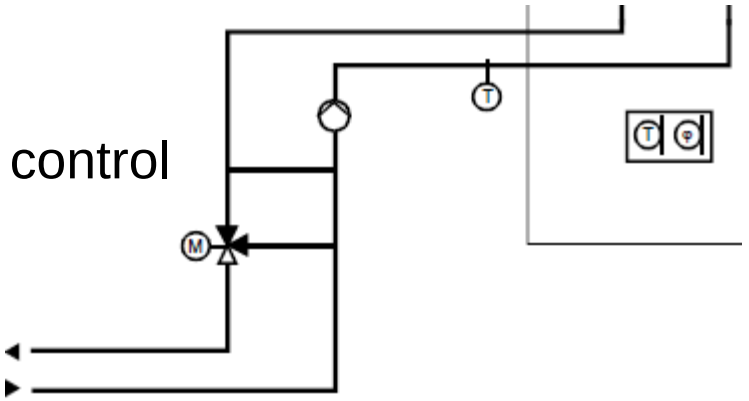
Basic type **C**, chilled water treatment

Demand dependent flow temp control

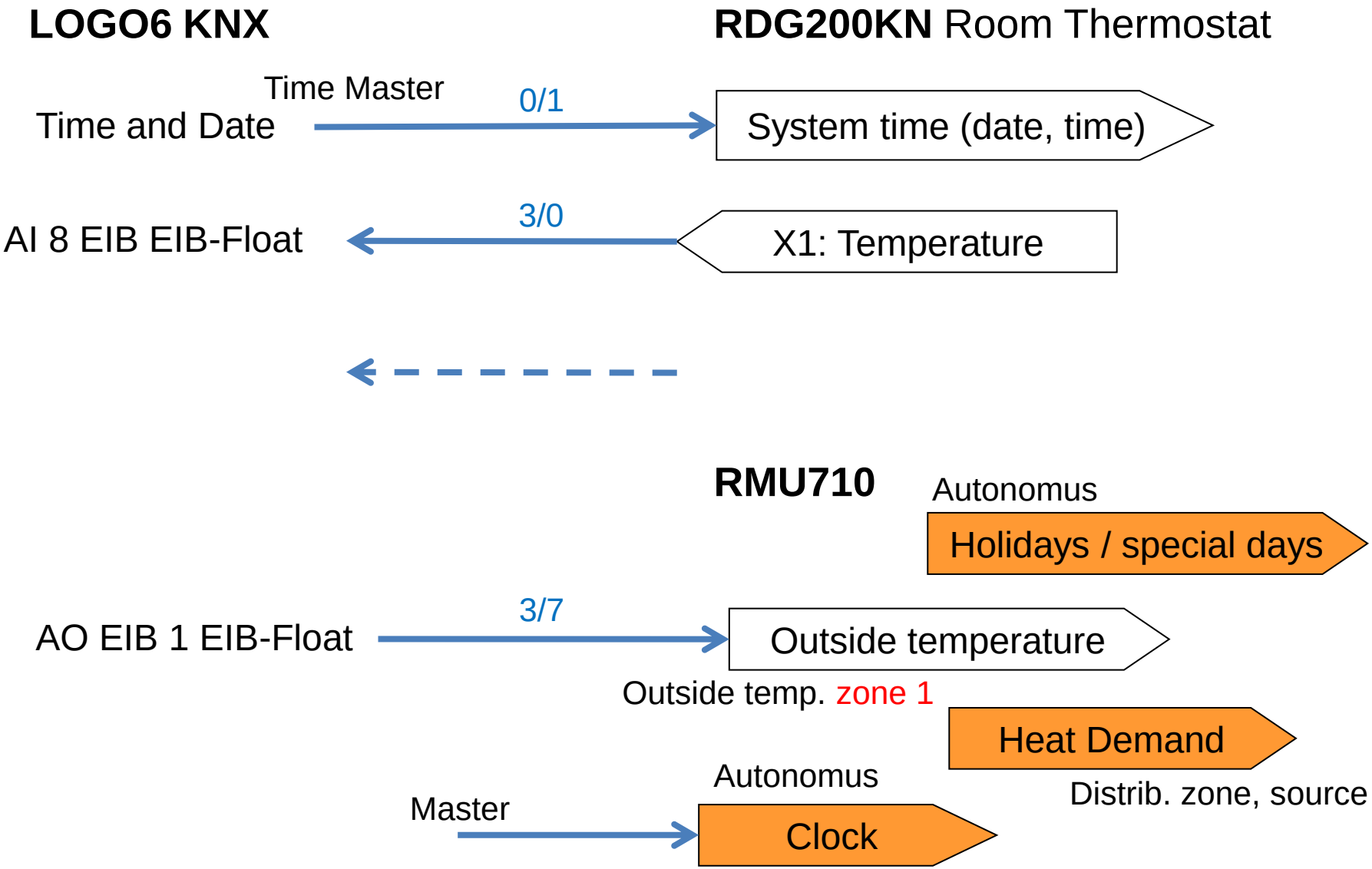


Basic type **U**, universal controller

Flow temp control



RDG200KN Ruumikontroller



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