



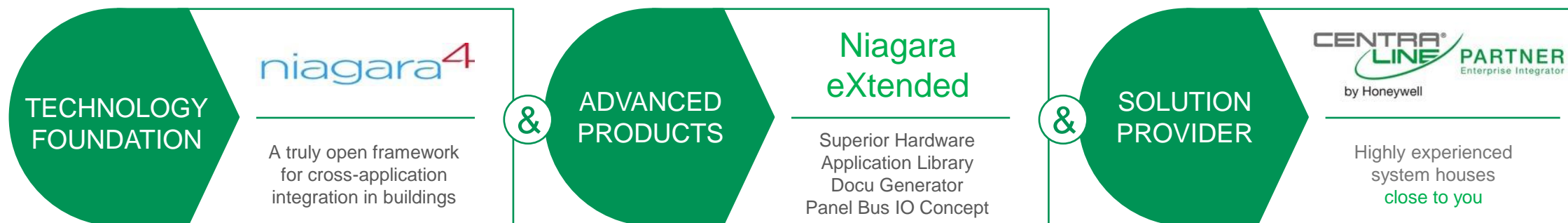
INTEGRERET MODBUS- OG DALI-BASERET RUMSTYRING

Georg Markhovski | 04.04.2022

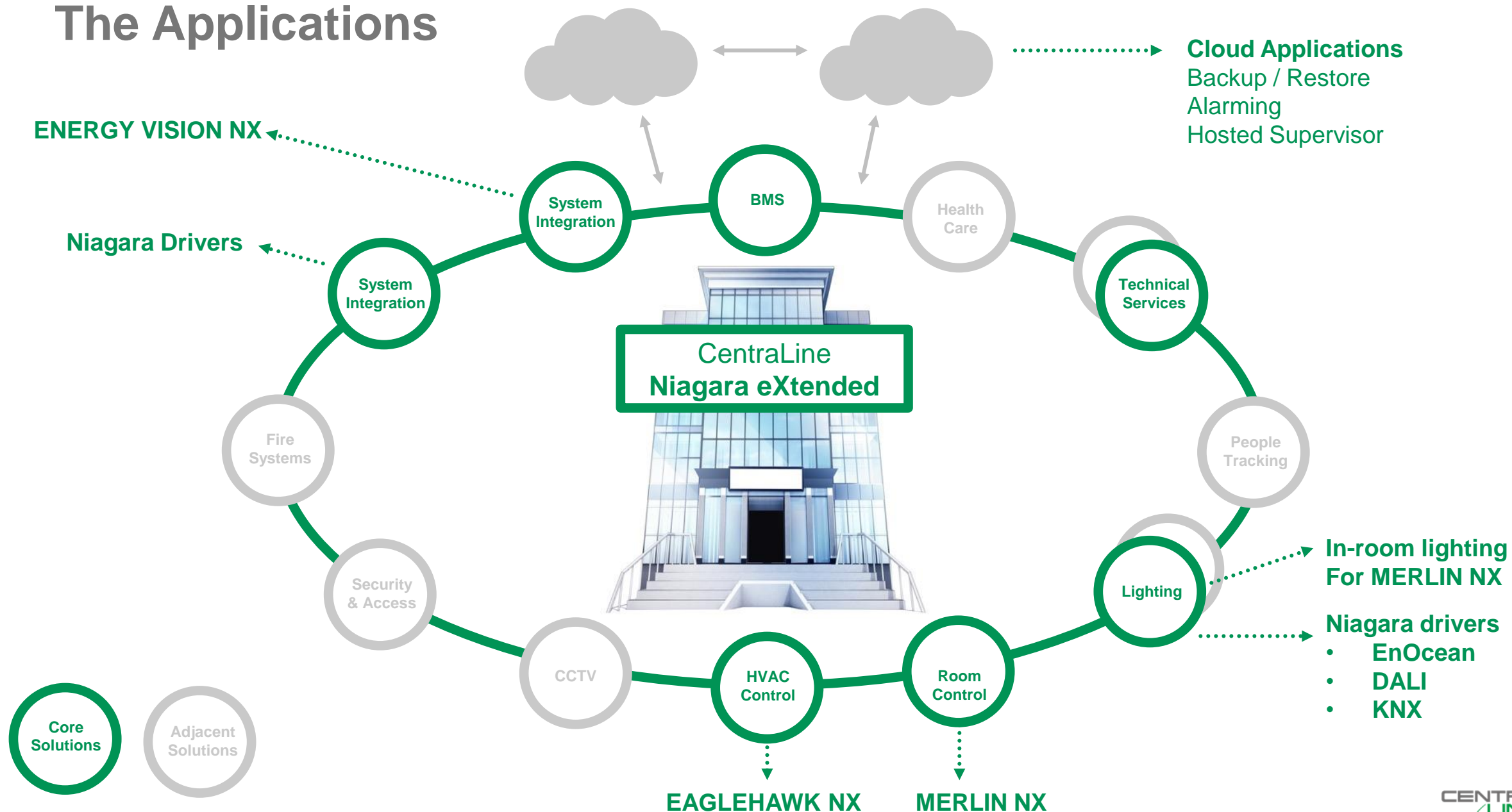
The Brand



- Founded in 2004 in Schönaich/Germany by Honeywell
- Quickly growing partner network to 600+ CentraLine Partners across EMEA
- Applying leading Niagara technology for Integrated Building Management
- Seamlessly integrating Honeywell and non-Honeywell building systems (HVAC and non-HVAC)



The Applications

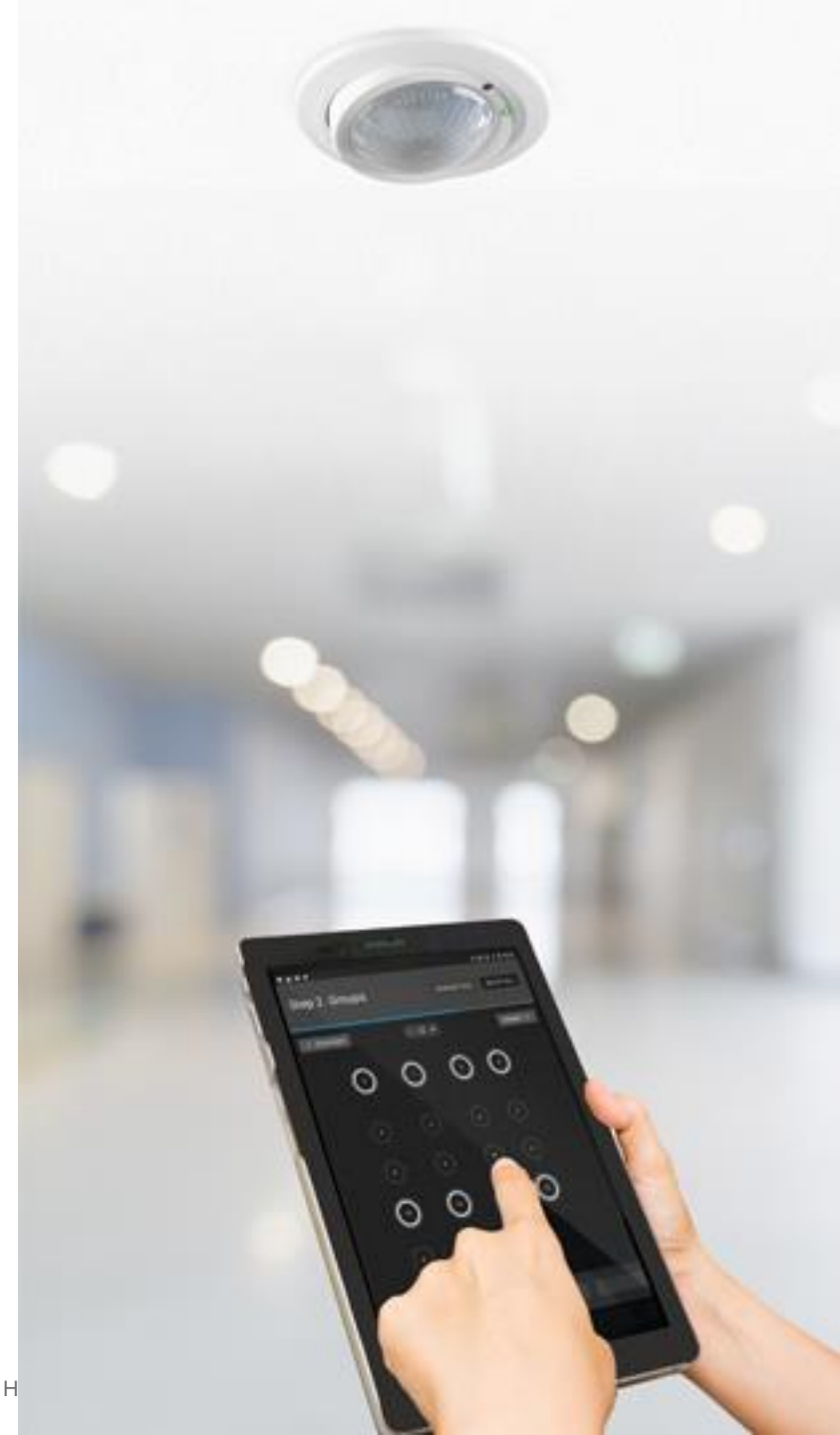


ROOM SOLUTION

Integration of DALI64 with MERLIN NX system enables integrated room automation and SMART building solutions



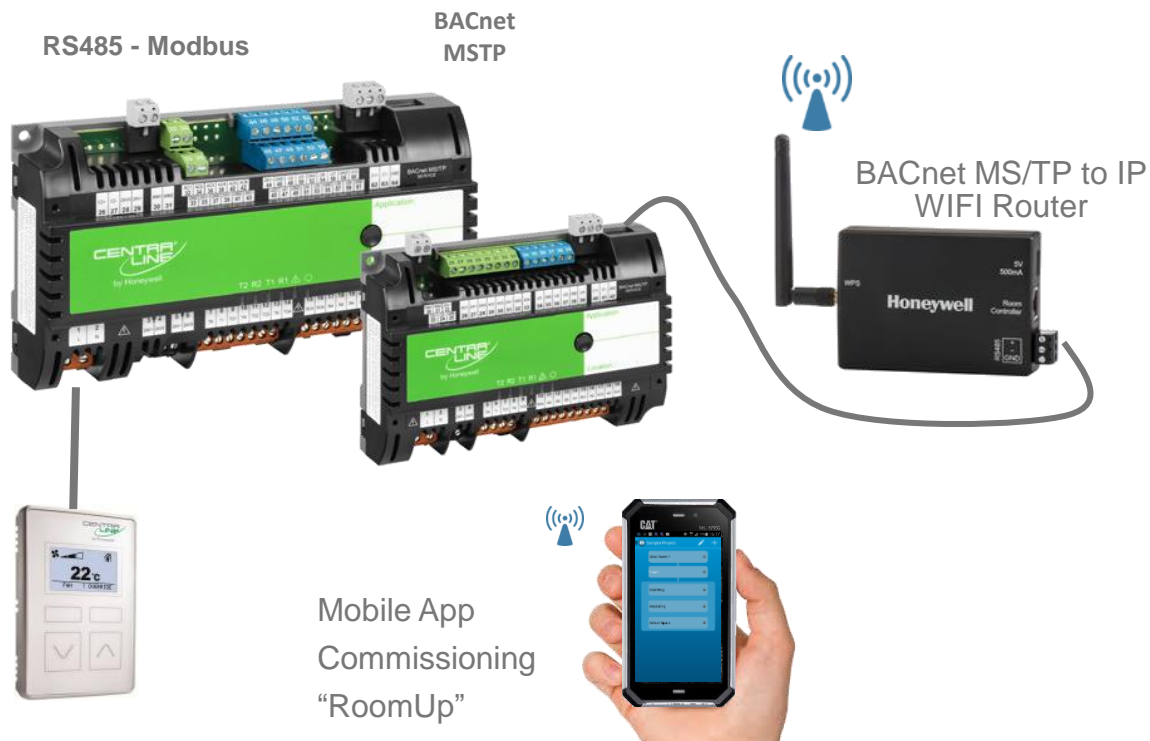
Balancing App



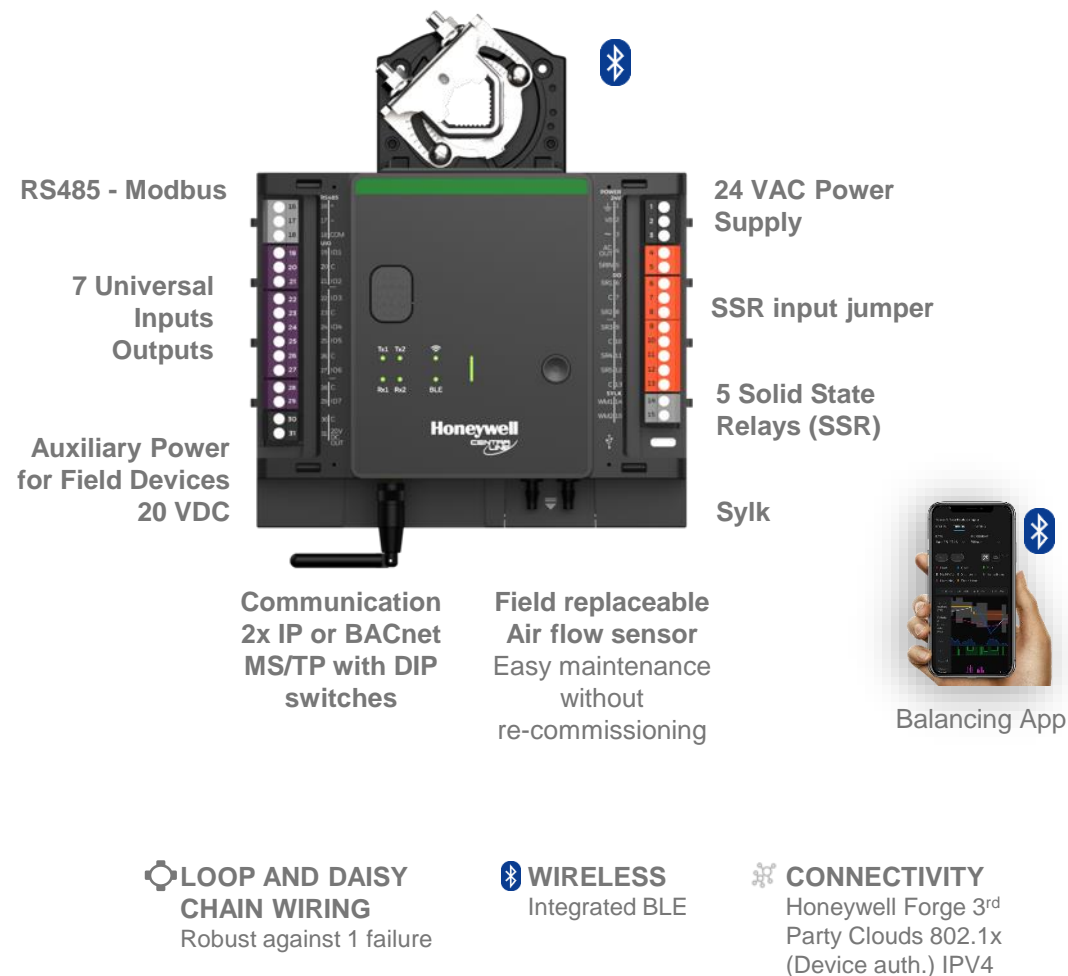
MERLIN room controller – Commissioning Savings

MERLIN offers Single-Person-Commissioning

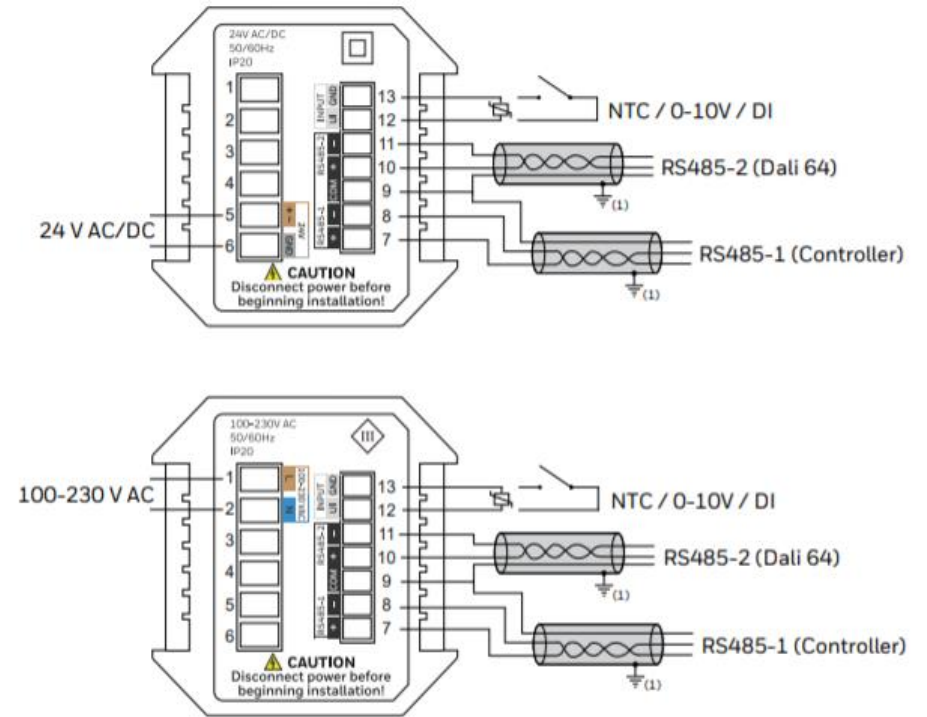
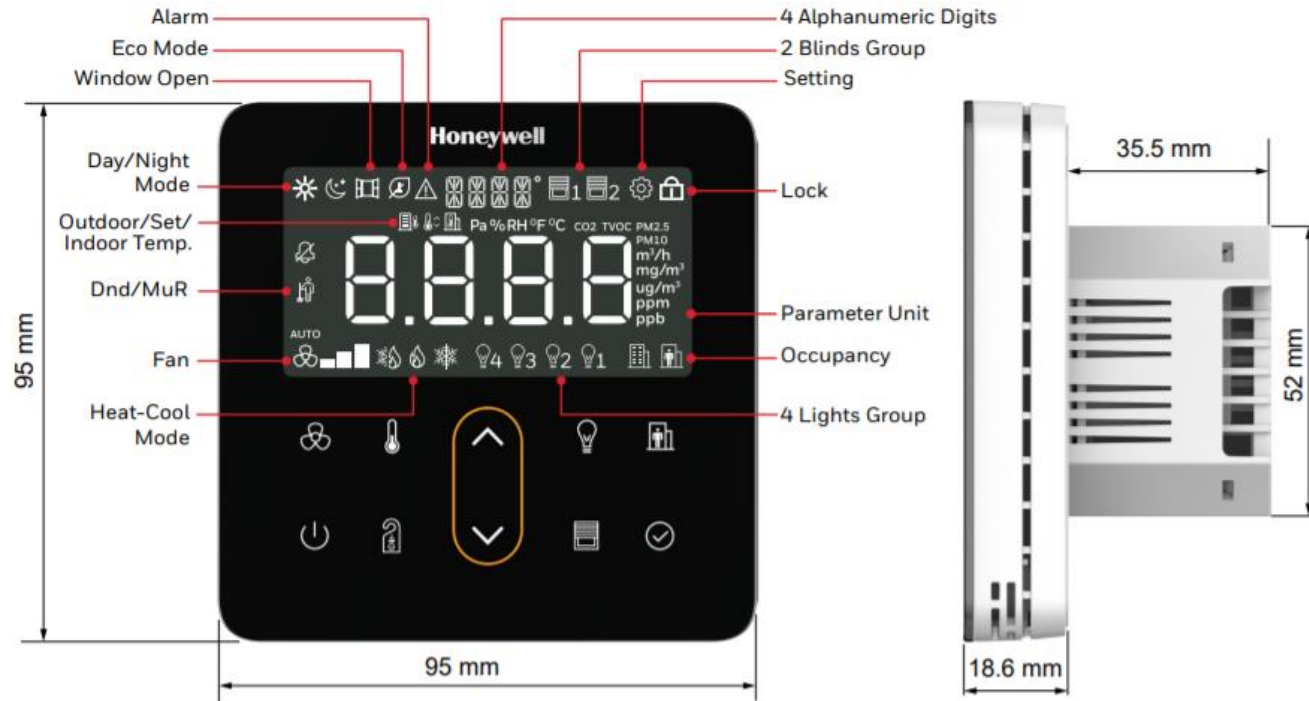
- Commissioning can be done by one person instead of two
- Guided test procedure & report
- Automatic MSTP MAC addressing



MERLIN NX IP VAV with Integrated Actuator



TR80 - MODBUS WALL MODULE



- On Board Temperature & Humidity Sensor
- Lighting Control upto 4 Groups
- Blind Control upto 2 Groups
- Do Not Disturb & Make My Room keys for Hotel Industry
- IAQ Parameters (Display Only): T, H, C02, TVOC, PM
- Additional Parameters (Display Only): Air flow(m3/hr) and Pressure (Pa)
- Two custom Parameter (4 Character, 4 digits)
- Dual Modbus RTU RS485 communication (Modbus Master for DALI64)
- One Configurable input for external Sensor: NTC /Analog Input/ Digital Input
- CE, RoHS and UKCA
- Available in 24V and 230V versions for easy of power wiring

ET SAMLET SYSTEM

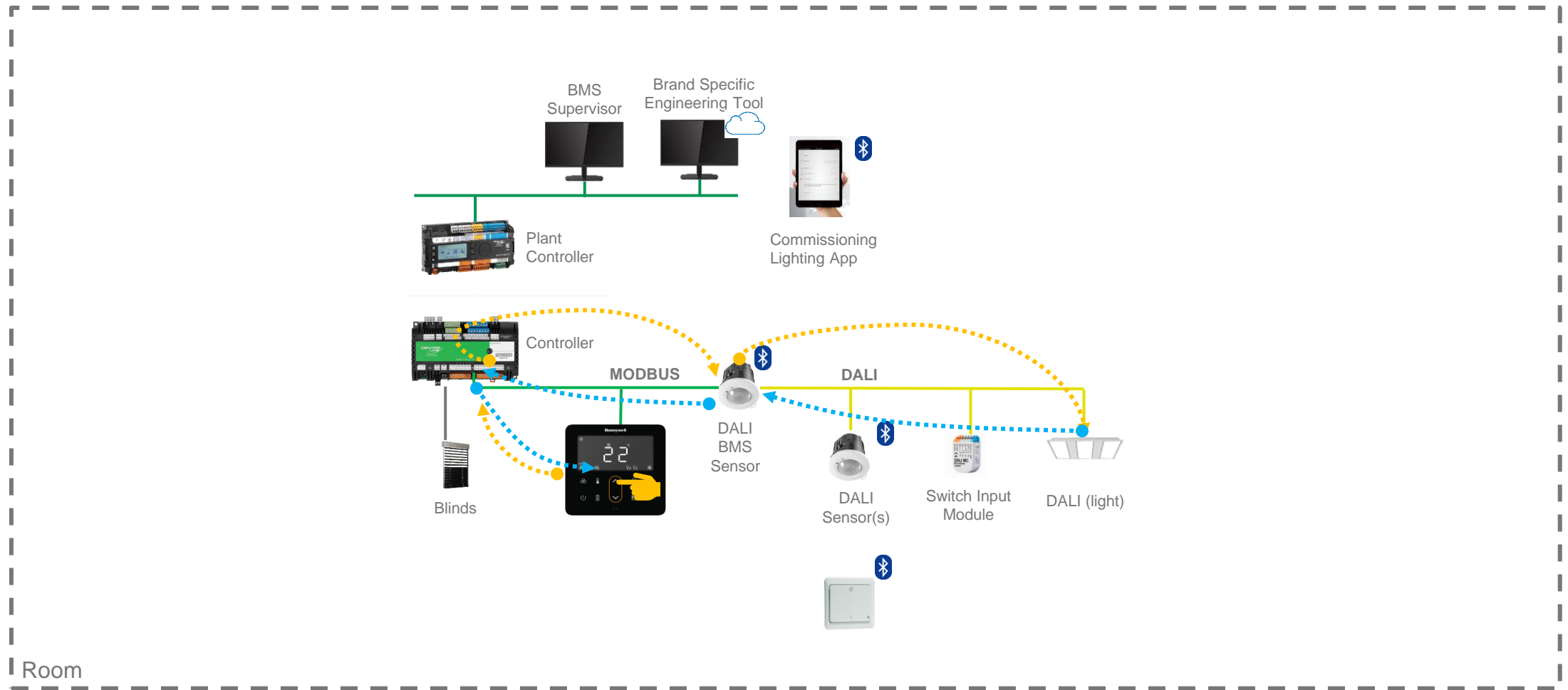
Fordele:

- Reduceret hardware omkostning
- Nem og sikker commissioning vha. apps
- Data udveksling: DALI-Modbus
- Visualisering
- DALI 2 open protocol
- Built in DALI power supply (150mA)

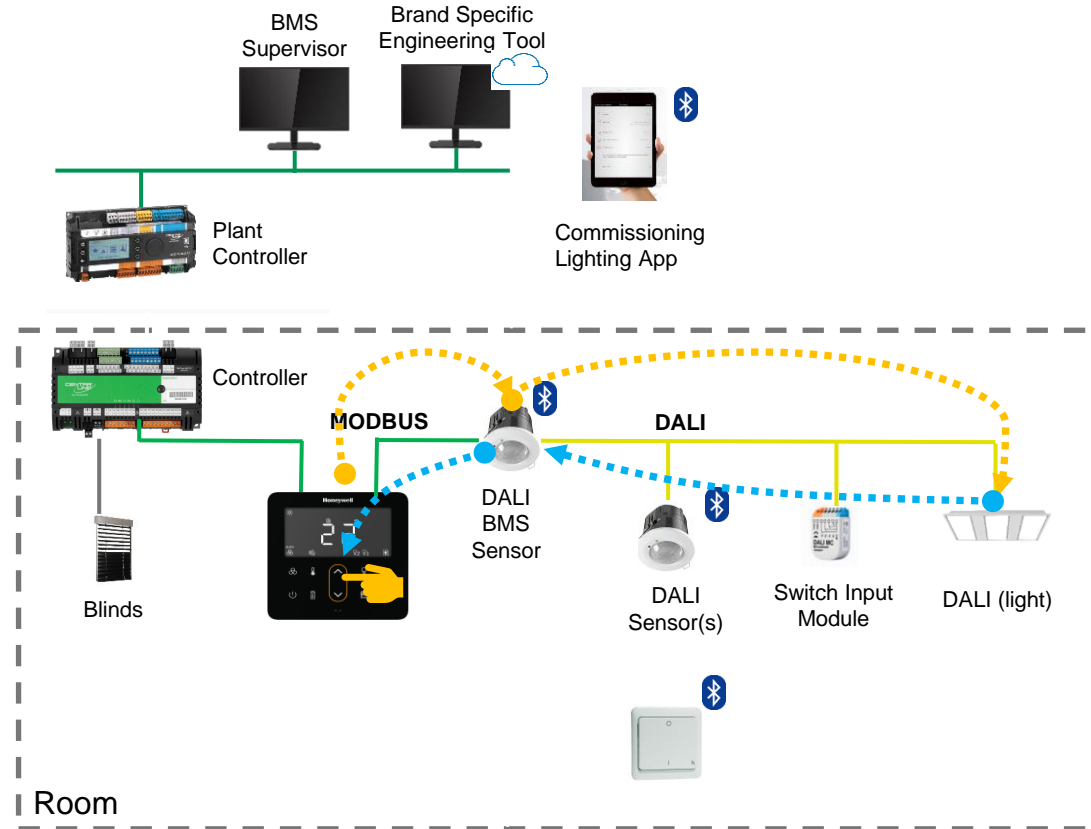
SYSTEM ARCHITECTURE



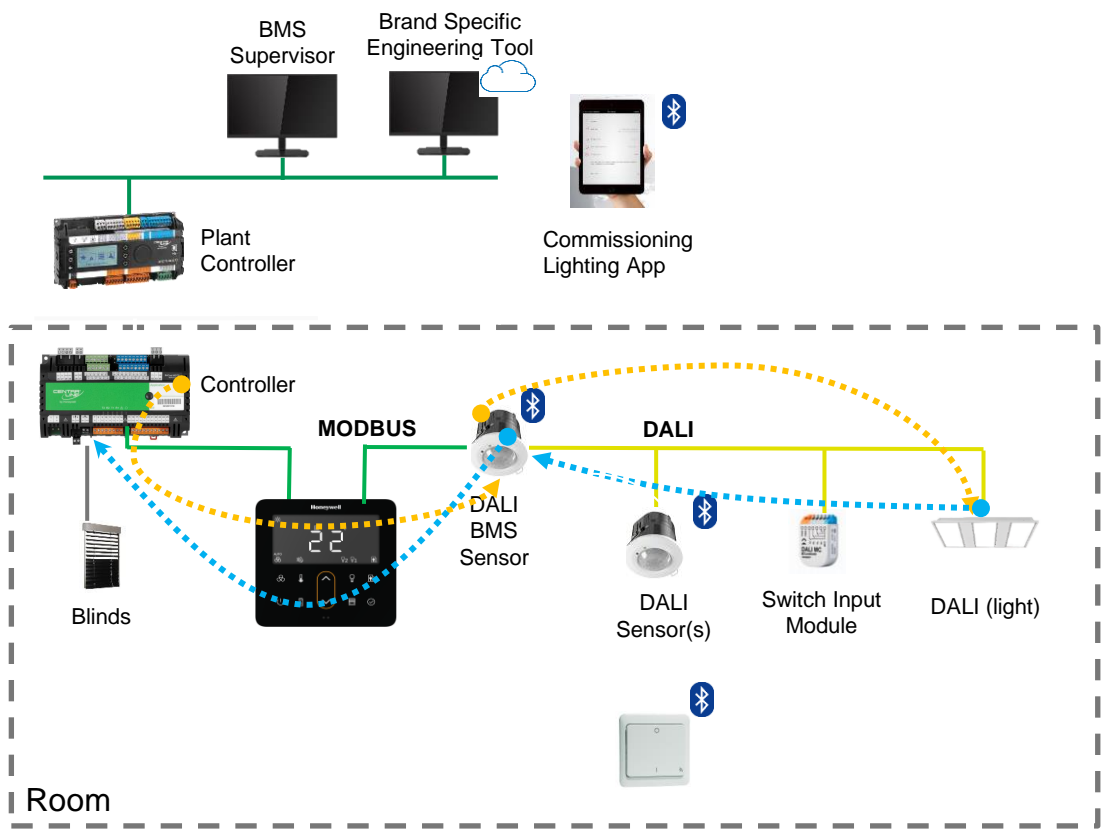
System Architecture #1 – Fælles Modbus



System Architecture #2 – standalone med vha. DALI-MODBUS Port



System Architecture #3 — med 2 MODBUS Ports



DALI64 INTERFACE PVID

PIR Sensor:

- Device Status
- Occupied Timeout
- Occupancy Mode

DALI Ballasts Gears/Groups:

- Gear Light State
- Gear Operating Hours
- Gear Energy Consumption
- Group Reset Counter
- Group Load-Shed Level

Setting and override options:

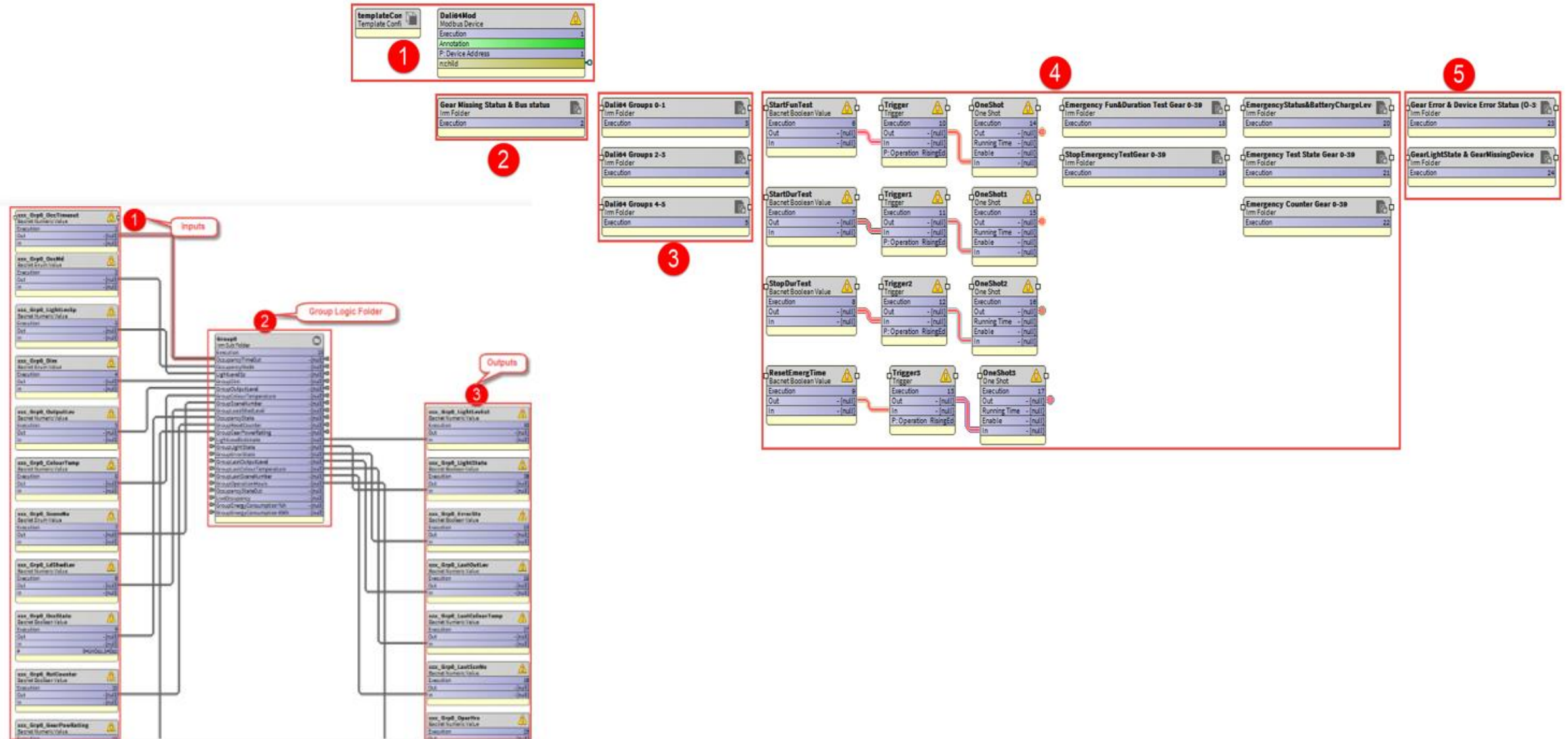
- Occupancy Time Out
- Occupancy Mode Override
- Light Level Setpoint
- Dim Up/Down Command
- Light Output Level Override
- Colour Temperature
- Scene Number
- Load Shed Level
- Occupancy Status Write
- Group Reset Counter
- Gear Power Rating

Feedback options:

- Light Level Estimate
- Group Light State
- Group Error Status
- Group Last Output Level
- Group Last Colour Temperature
- Group Last Scene Number
- Group Operating Hours
- Occupancy Status Read
- Live Occupancy



DALI64-MERLIN NX APPLICATION TEMPLATE



VI SES

”Praktiske aspekter og
Live Demo af Modbus/Dali
integration af rumstyring”

den 18. maj, kl. 13:00

