



The image shows a bright, modern library interior. It features multiple levels connected by wide, blue-tinted stairs with white railings. The walls and ceiling are white, and the floor is a light, neutral color. Bookshelves filled with books are visible on various levels. A large, rectangular skylight is positioned at the top of the frame, allowing natural light to enter. The overall atmosphere is clean and minimalist.

LuxMaster Quattro HD-2

Basic Version

Agenda

LuxMaster at a glance

- Overview and position in the DALI APC range
- Key features at a glance

Product capabilities

- Sensor heads, DALI groups, 64 participants
- System components (DALI & Bluetooth)

System setup and versions

- Lighting control and wiring
- Product roadmap

BT - DALI networking

- Basic BLE Mesh and network types

Application in the app

- App structure, groups and scenes



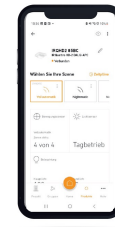
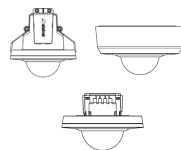
Definition

Definition



LuxMaster

All-in-One
Control unit



 **Bluetooth® MESH**

Plug & Play
Flexible system expansion

DALI-2 lighting management for individual rooms
Unbeatable in flexibility and function

Easy to plan. The LuxMaster combines bus voltage, sensor and control are combined in one device.	Quick to set up. Fully automatic DALI-2 operating mode in broadcast with main and basic lighting functions set in the factory settings.	And flexible for retrofitting. Area extensions through sensor networking and retrofitting of system components via Bluetooth Mesh.
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Overview of DALI APC sensors



IR Micro Office,
3000 series



IR Quattro HD
DALI duo 24m



IR Quattro HD
DALI plus 24m



Control PRO II series



LiveLink

Light channels

1

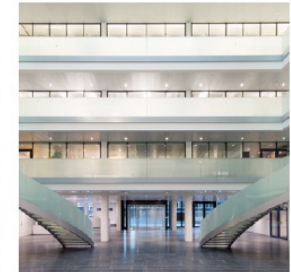
2

3

4

16

Areas of application



The perfect single-room solution

LuxMaster



Easy planning



Quick commissioning



Individually configurable



Expandable system



Networking and commissioning



LuxMaster

4 Sensor heads



IR Quattro HD-2

24x24m Detection
9x9m Presence



HF 360-2

Ø12m Presence



Hallway

25x3m Presence



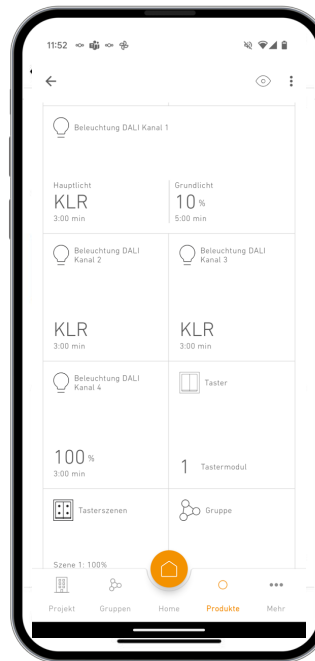
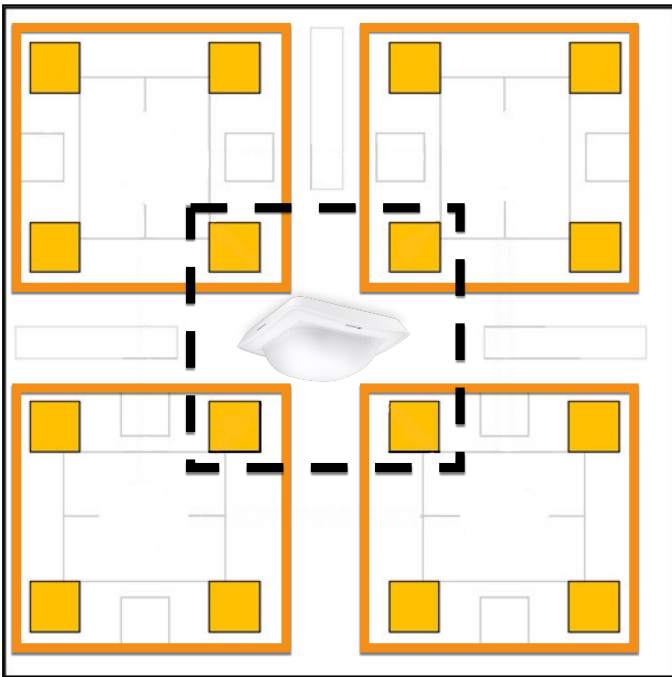
True Presence

Ø15m Presence
Ø9m True Presence



LuxMaster

4 DAL groups + multizone support



- Setup of up to 4 DALI groups
- Individual luminaires from the DALI groups can be combined in an additional multizone
- Separate switching or dimming possible via push button (manual override of the DALI group configuration)

LuxMaster

64 Participants



64 participants

- Individual addressing of the 64 participants
- Divide into up to 16 groups
- Bidirectional communication
- Optional extension of the DALI line by up to 64 additional participants with REP-DALI2 repeater

LuxMaster

System components: DALI



Push button coupler PC4-DALI2

- Integration of up to four standard buttons



Repeater REP-DALI2

- Additional DALI power supply
- Bidirectional communication for installing additional DALI-2 IPDs



Relais REL5A-DALI2

- Integration of circuits into the DALI control system, e.g., panel lighting



Rotary dimmer RDIM-DALI2

- Intuitive switching and dimming of lighting

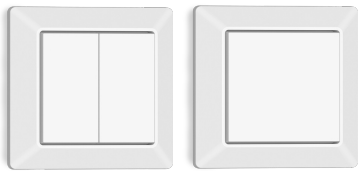


Broadcast Module-BROADCAST-DALI2

- Expansion of the DALI line by up to 64 additional participants
- Unidirectional broadcast control

LuxMaster

System components: Bluetooth



PB2/PB4 wireless push button

- Can be used anywhere, no power supply required



Push button coupler PC-4 Bluetooth

- Integration of up to four standard buttons



Relais REL5A-Bluetooth

- Integration of switched consumers into Bluetooth Mesh system



Rotary dimmer RDIM-Bluetooth

- Intuitive switching and dimming of lighting

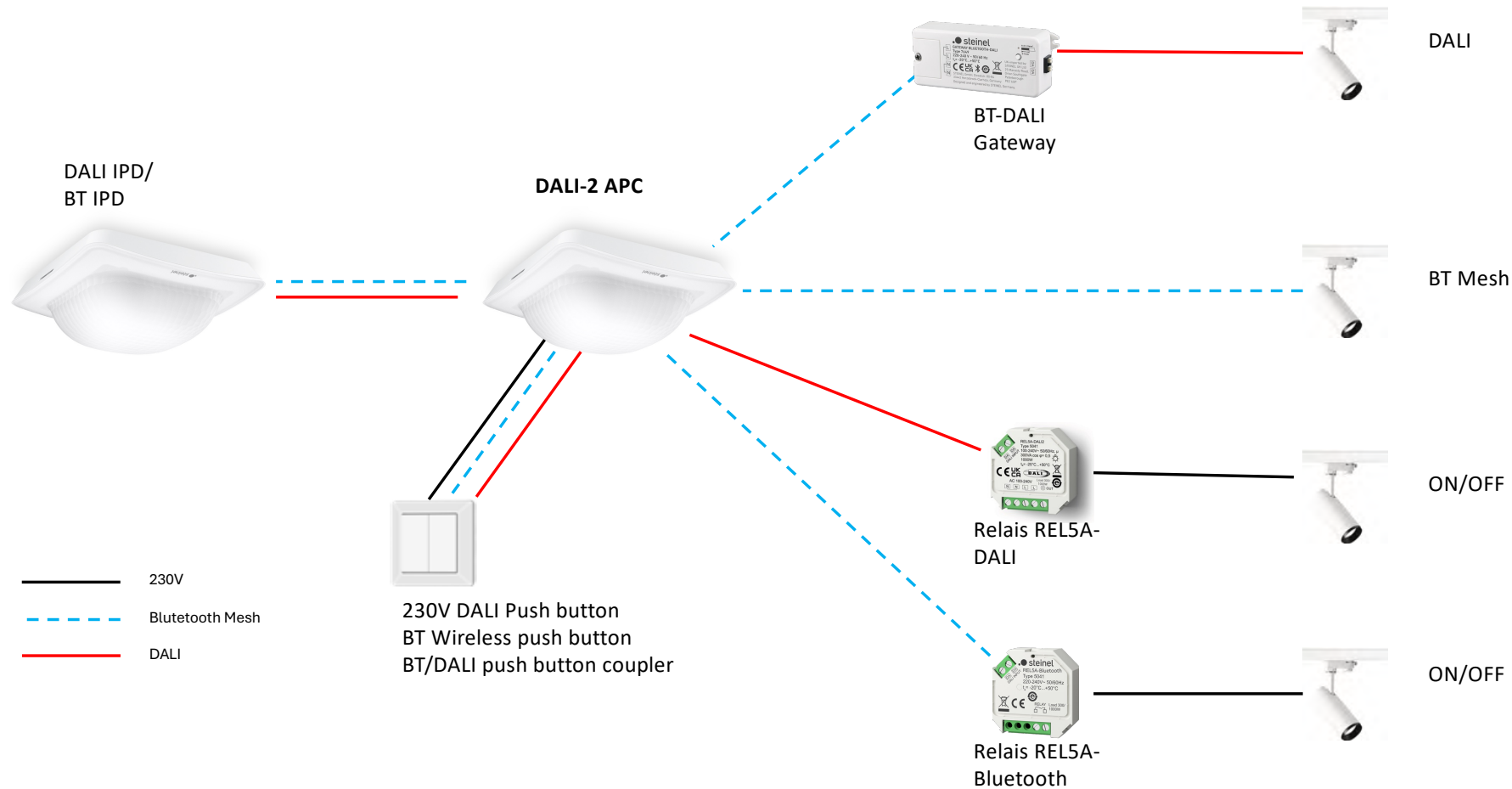


Gateway Bluetooth-DALI

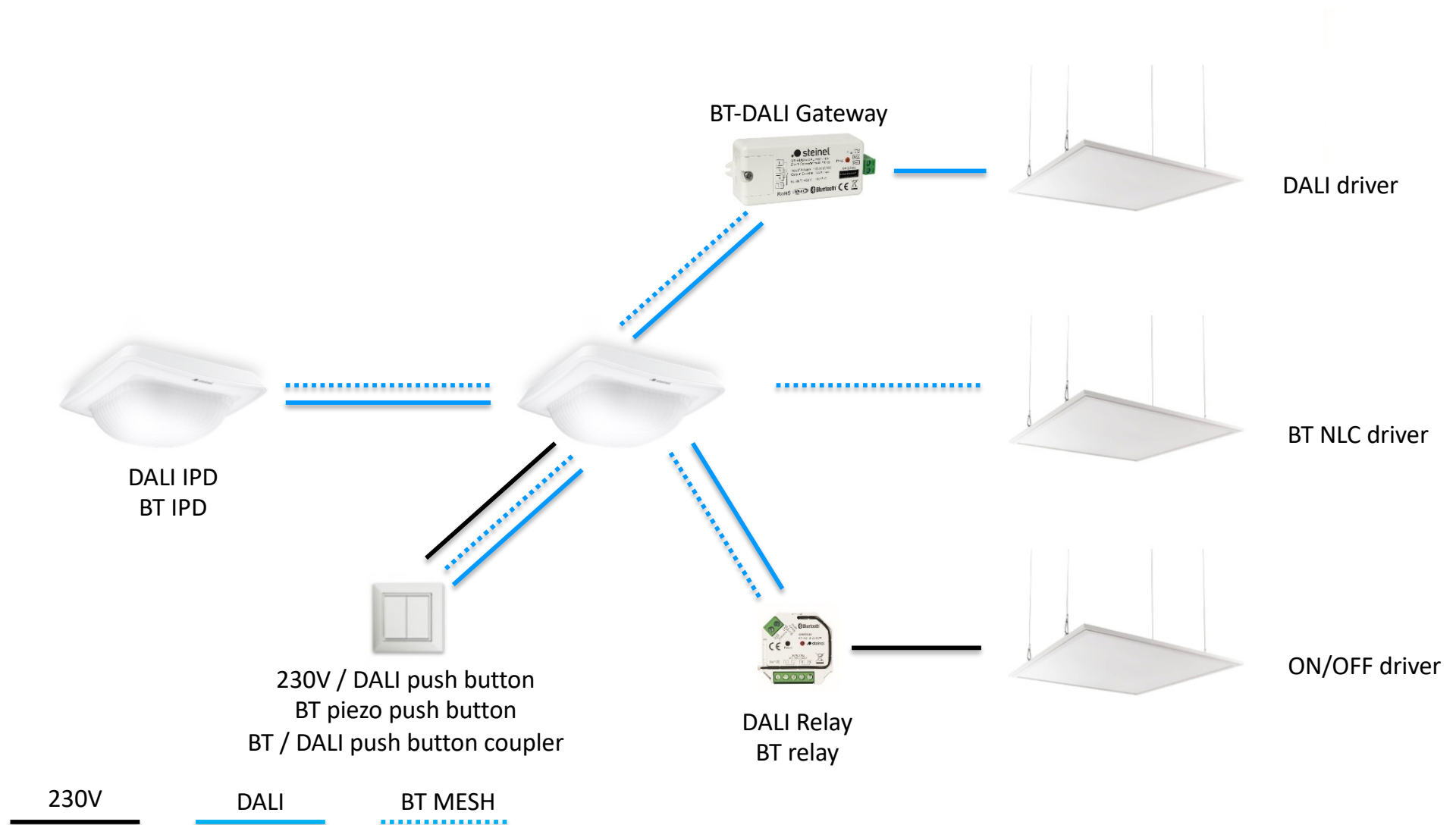
- Integration of DALI luminaires into Bluetooth mesh system
- Broadcast up to 64 luminaires

Unbeatable in flexibility and function

Lighting control with the LuxMaster series



Control PRO II Hybrid Solution



First version of Luxmaster

Like a big brother to the IR Micro Office

- Broadcast operation
- Addressing of DALI luminaires
- Division into up to 4 DALI groups
- Scenes in BT
- Temporary scenes in DALI (push button)
- Constant light control
- Operating modes:
 - Fully automatic
 - Semi-automatic
 - Light sensor operation (constant light control)
 - Nightmatic
- Schedules



Commissioning is currently only possible with an Android app.

LuxMaster CP II DALI APC



Second version of Luxmaster

In approx. 6-8 weeks

- Expansion to HF 360 and Hallway
- Folding door
- Multizone...



Final version of Luxmaster

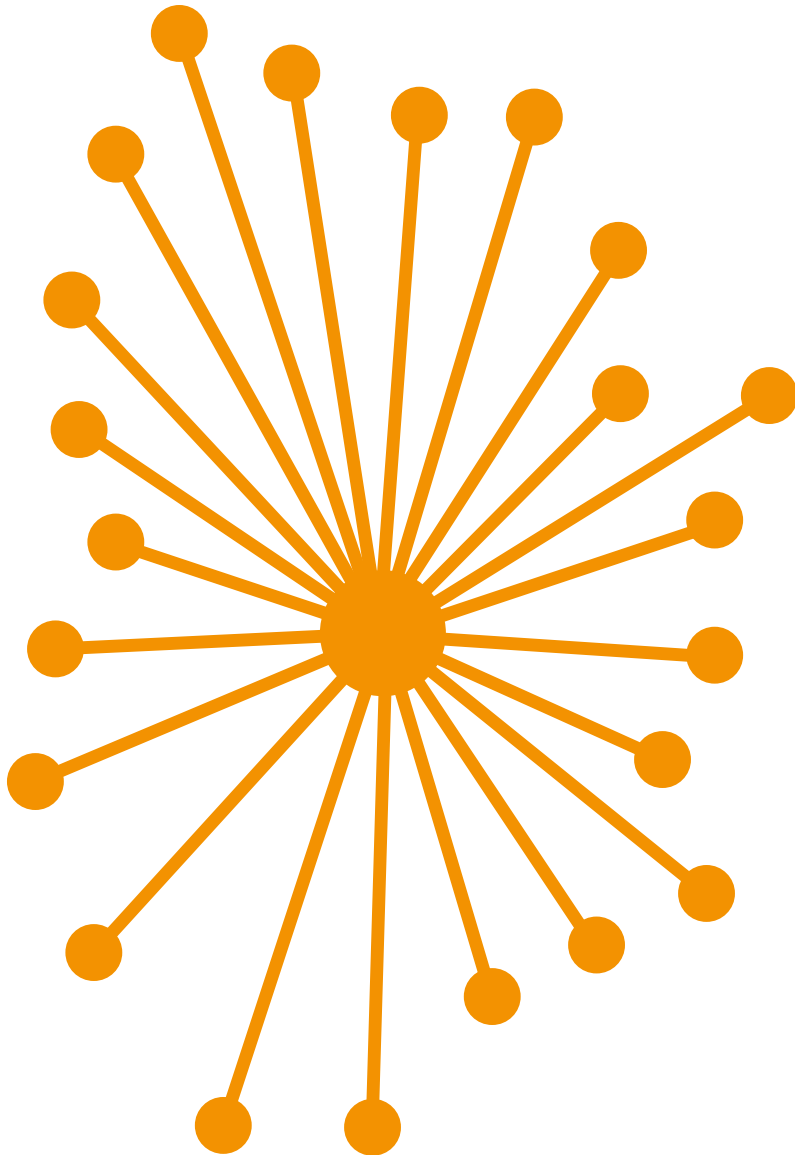
Another 6-8 weeks later

- Network-wide signal (burglar or locking function)
- Maximum dimming level
- Adjustable dimming speed (3-10 s)
- Constant light control in fixed and dynamic modes



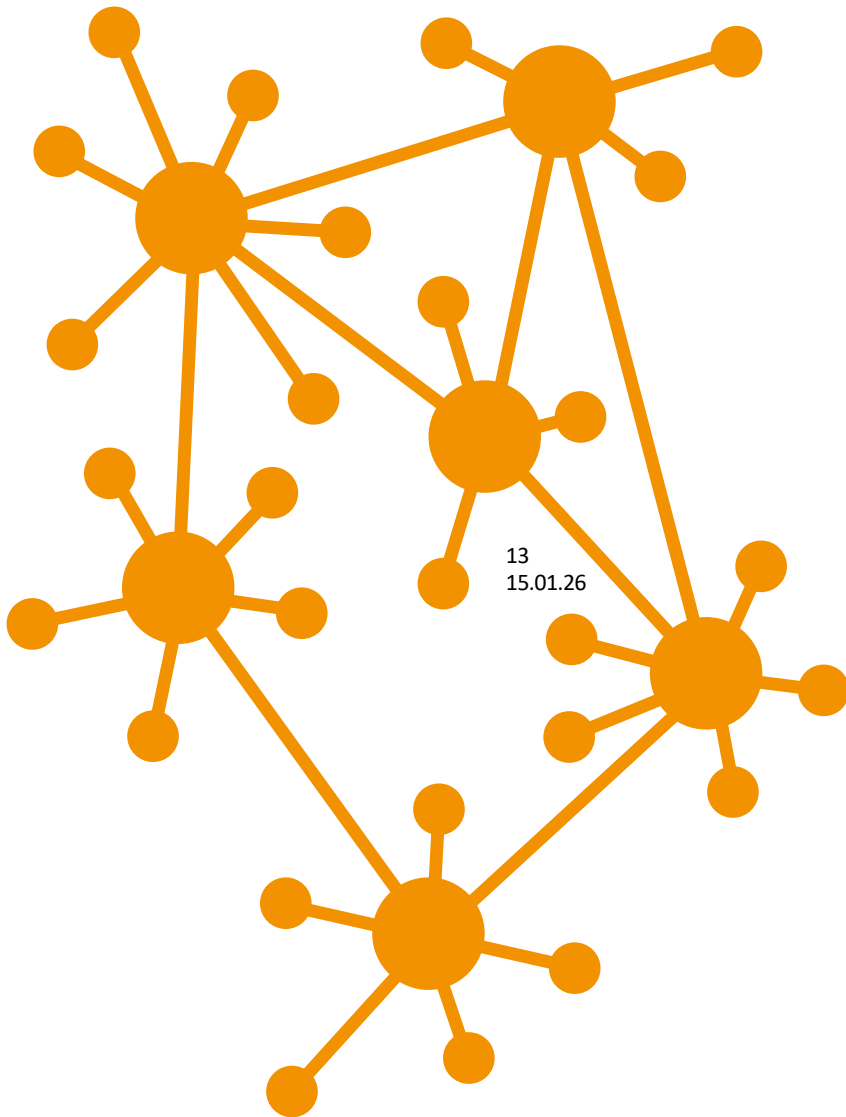
App for Android and iOS in February 2026

BLE Mesh Basics



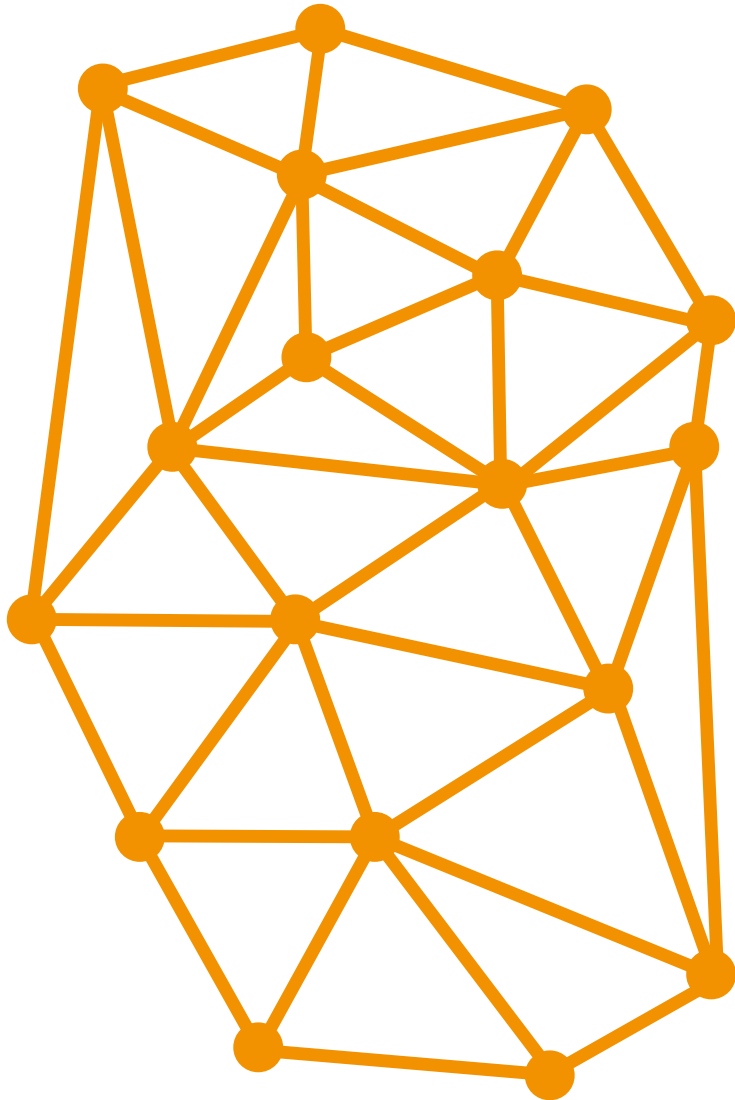
Centralised networks

"Centralised" networks enable a central device to communicate with many other devices. Due to their geometry, they are also referred to as "star systems". In a centralised system, the "intelligence" is located in the main device. Example: a DALI lighting management system with central control



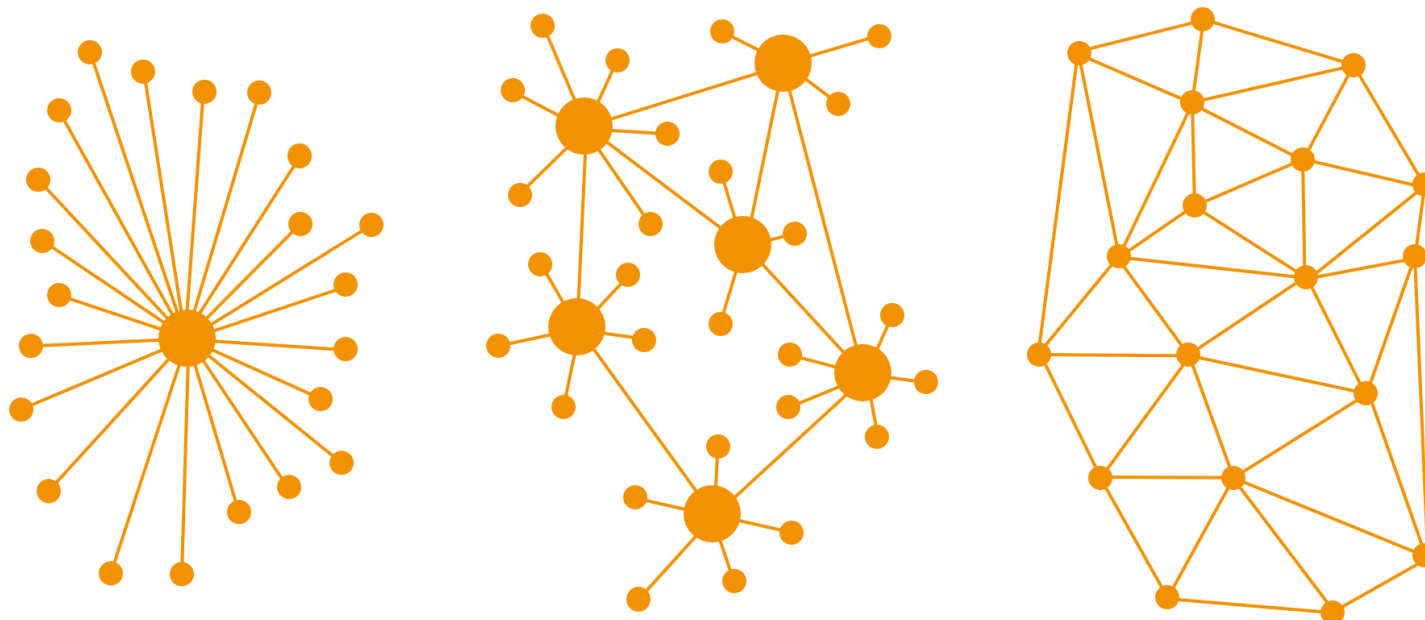
Decentralised networks

In a "decentralised" network, the central device or "intelligence" is divided into several or many devices, which are then connected to each other and communicate with the other devices.



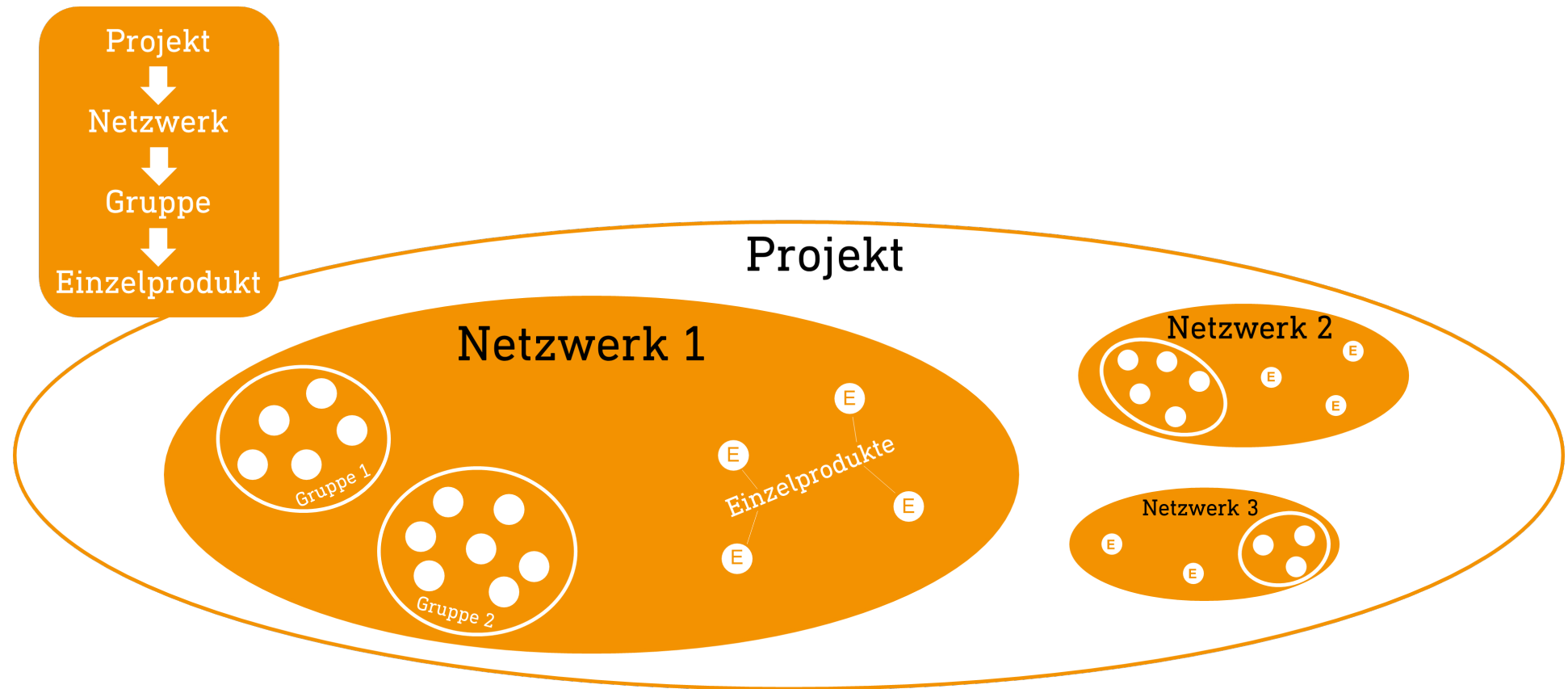
Distributed networks

A "distributed" network has no central devices. The "intelligence" is located in all devices. All devices have similar powers, are autonomous and "make their own decisions".



DALI system → DALI APC in mesh ← BT mesh

Structure of the APP



DALI-APC in groups or as a single product

When two become one...

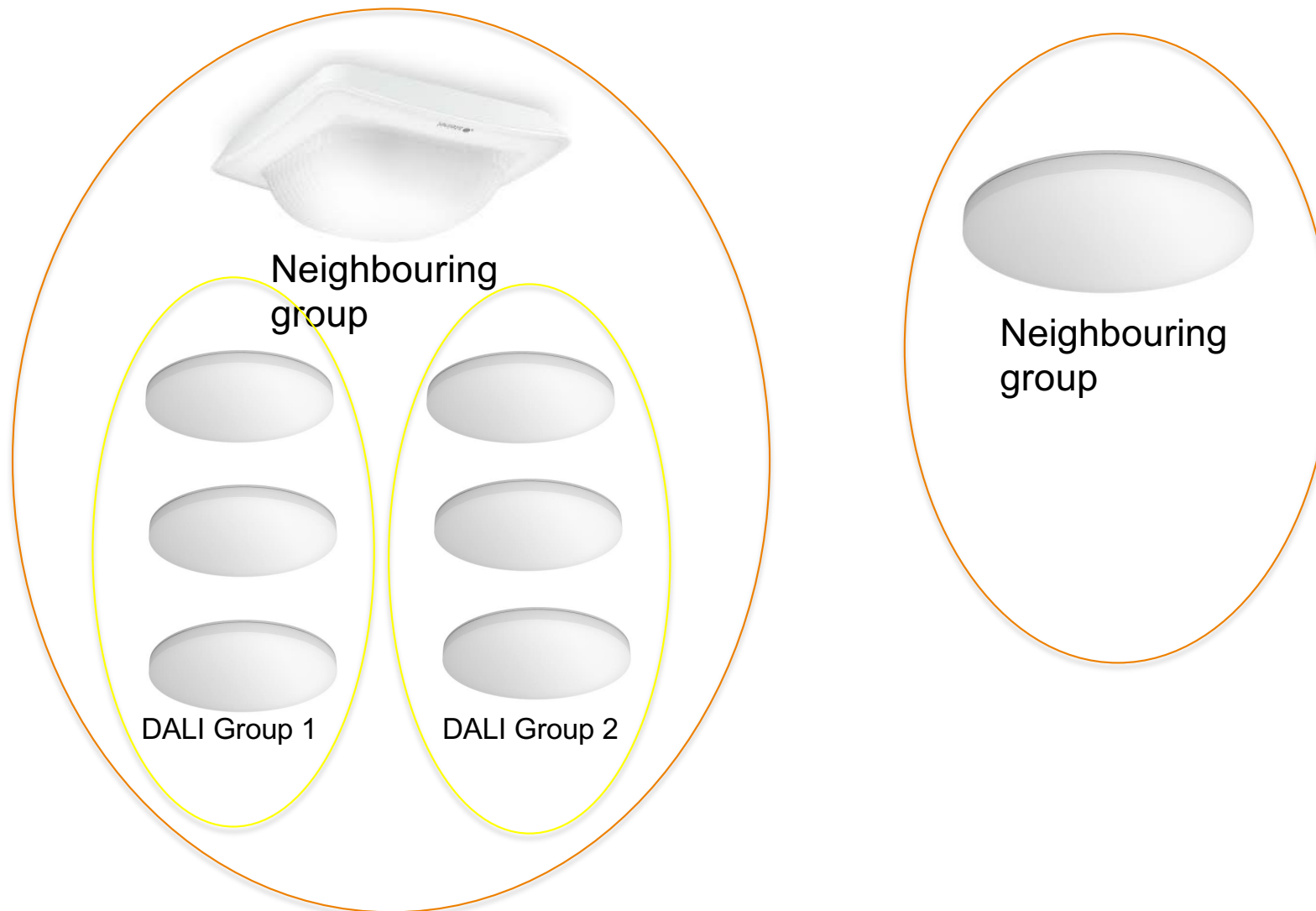


The luminaire is switched with channel 1 → same behaviour



Two APCs in a group behave in the same way → like folding doors, but permanently

DALI-APC as a neighbouring group



Application in the APP

