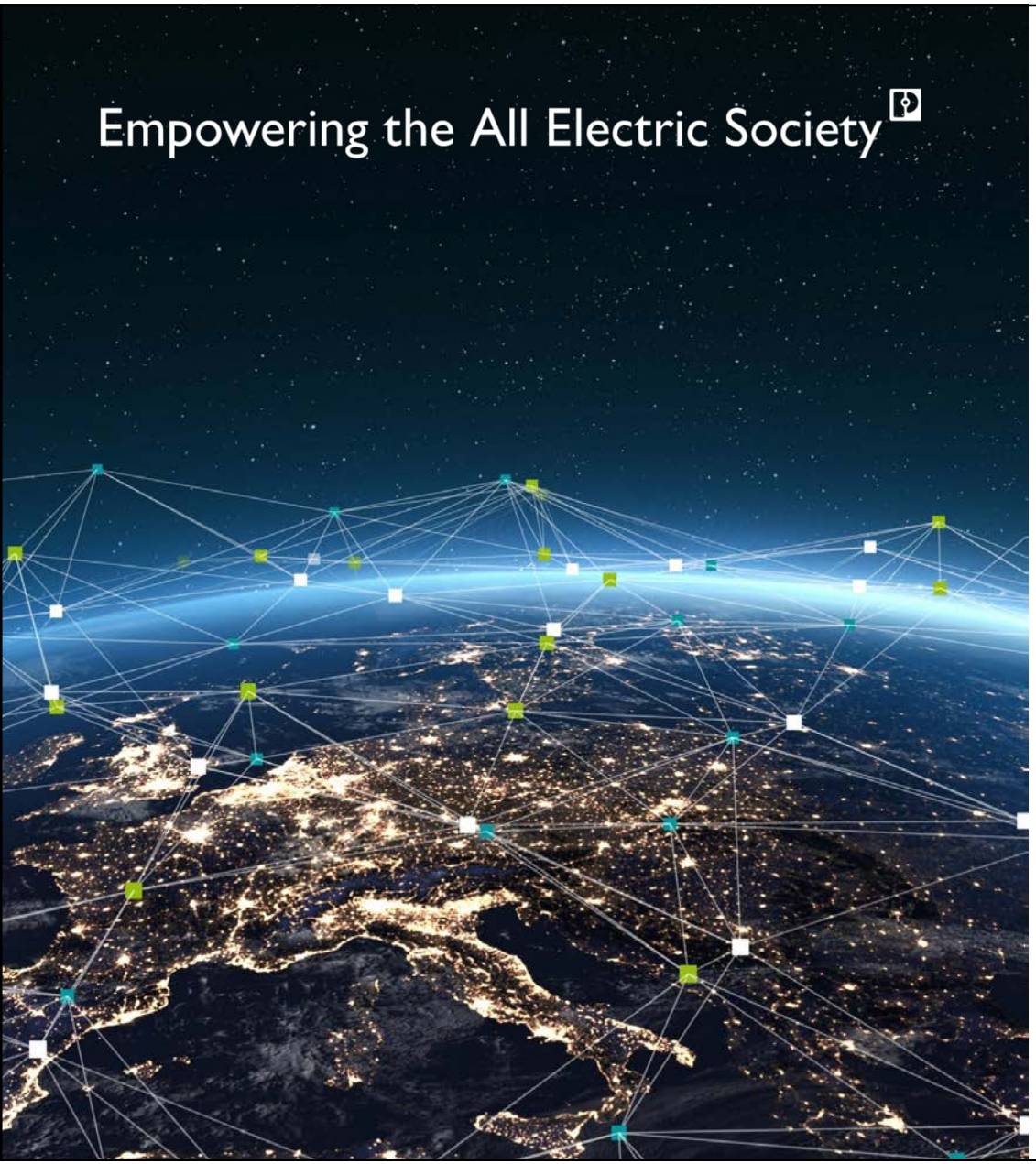


100 years of passion for technology and innovation

Welcome

Smart Building Expo 2025

Bridging the gap between

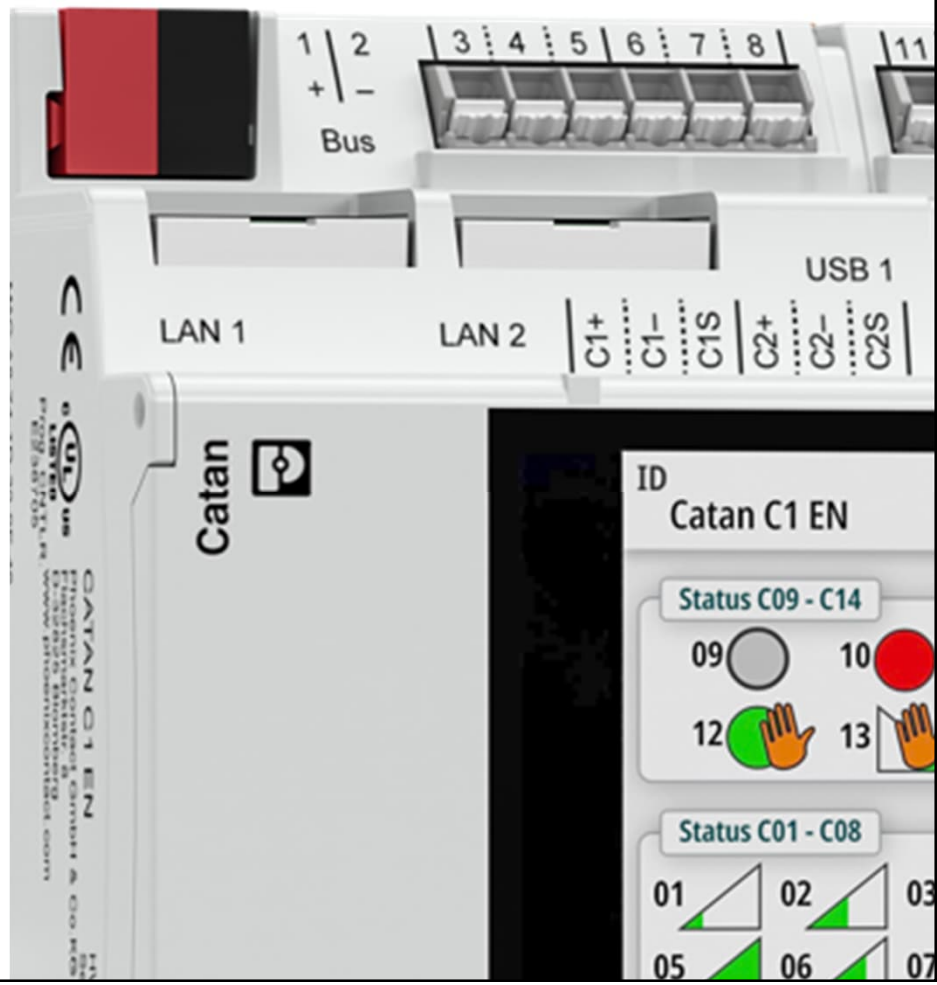
KNX and Niagara Framework

PHOENIX CONTACT

KNX and Niagara Framework

Agenda

- Motivation
- Niagara Integration
- KNX Functionalities
- Application Example



Motivation

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Motivation

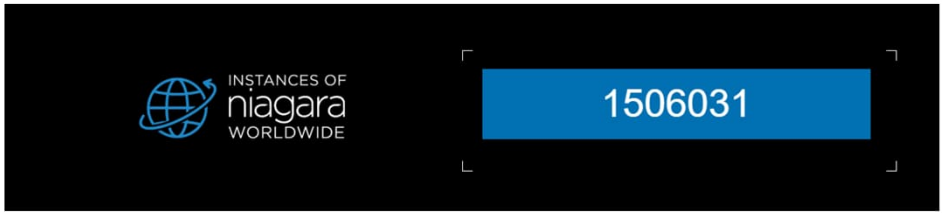
Why is KNX integration interesting?

- KNX - established in building automation for >30 years
- Hundreds of manufacturers
  with thousands of products on the market
- Versatile product portfolio (still growing)
- Simple wiring (twisted pair)
- **Catan** KNX integration enables the use of interesting KNX products directly in the Niagara automation world
  - Control panels, motion detectors, weather station, ...

Motivation

Why is Niagara Framework integration interesting?

- Niagara - established in building automation for >20 years
- 1.5 million instances on the market in over 70 countries ~ 80 community partners in Italy
- Vendor-neutral platform for open integration
- Future-proof thanks to scalability and IoT-capability
- Increased efficiency thanks to central data and management platform



Find out more at the OpenSense stand or tomorrow in my Emalytics Automation presentation at Building Automation Square

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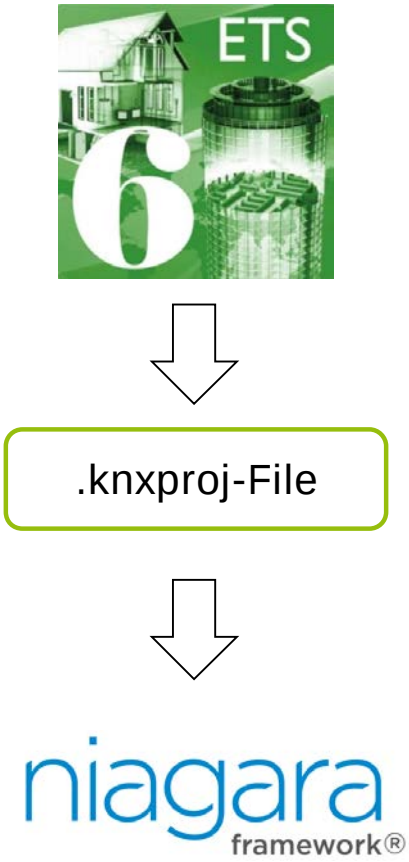
Niagara Integration

Niagara Integration

Catan – The perfect match of KNX and Niagara Framework

- Integrated TP connection for a KNX TP line
  - No external IP interface required for Niagara
- Standard Tridium KNX driver (knxnetIP)
  - IP tunneling interface to the KNX TP line
    - Import of group addresses from the ETS project
    - Listening / writing to group addresses

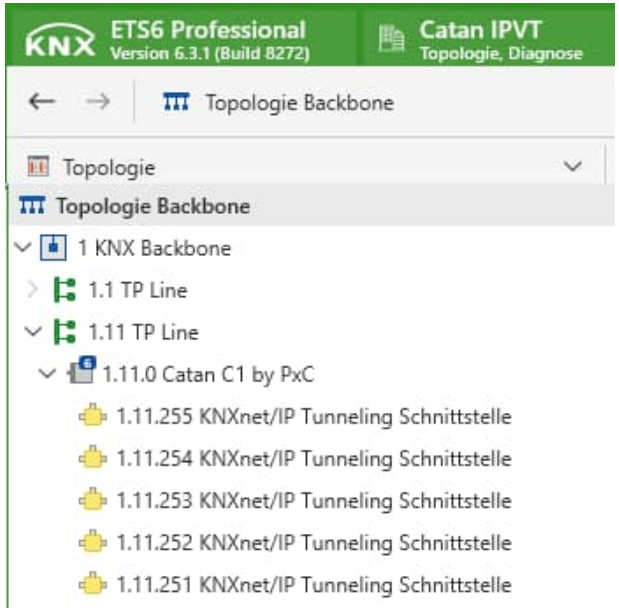


KNX Functionalities

KNX Functionalities

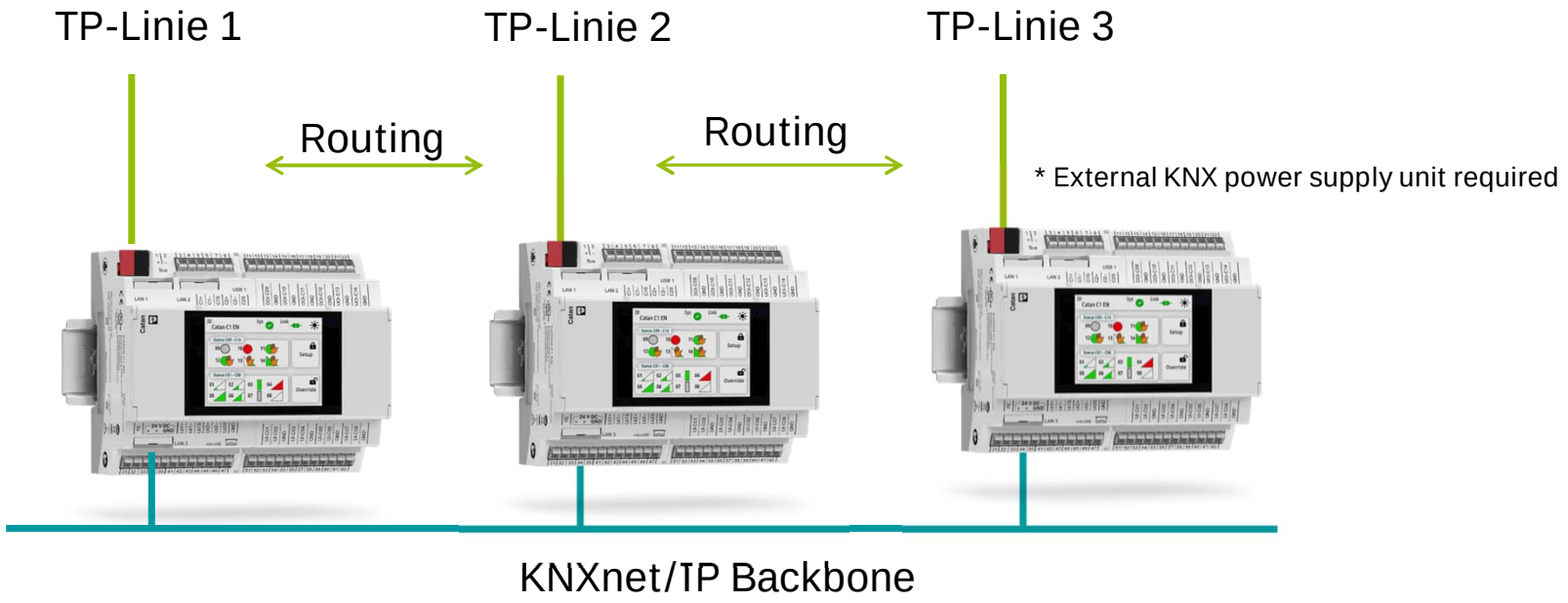
Major Update KNX functionality beginning of 2026

- Extension of KNX integration → fully-fledged KNX IP router
- KNX certification / KNX logo
- ETS product database entry available
- Configurability via ETS
- Use of **Catan** as an interface for programming all connected KNX devices from the ETS
  - No USB interface required for initial setup, as the IP configuration is carried out in the WBM or Niagara



KNX Functionalities – Infrastructure based on Catan C1

- Completely independent of the Niagara function of the controller
- The KNX integrator can carry out KNX commissioning independently of Niagara

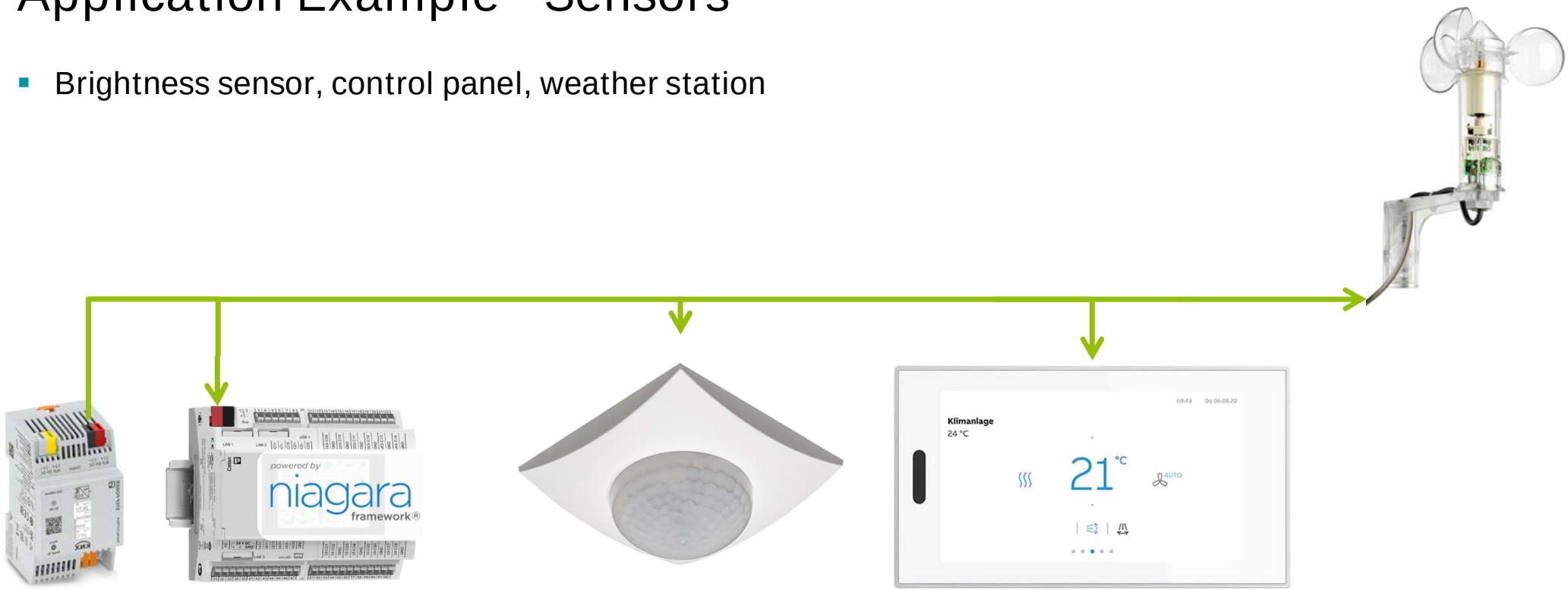


Application Example

KNX and Niagara Framework

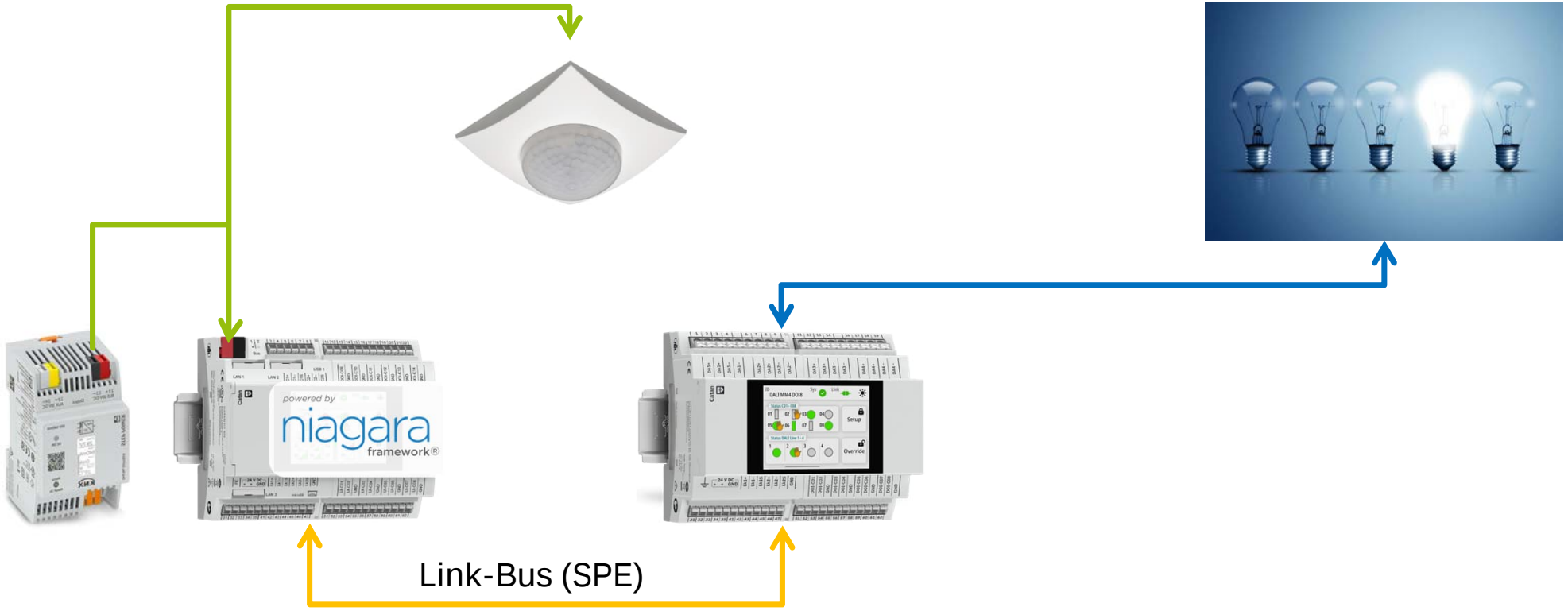
Application Example - Sensors

- Brightness sensor, control panel, weather station



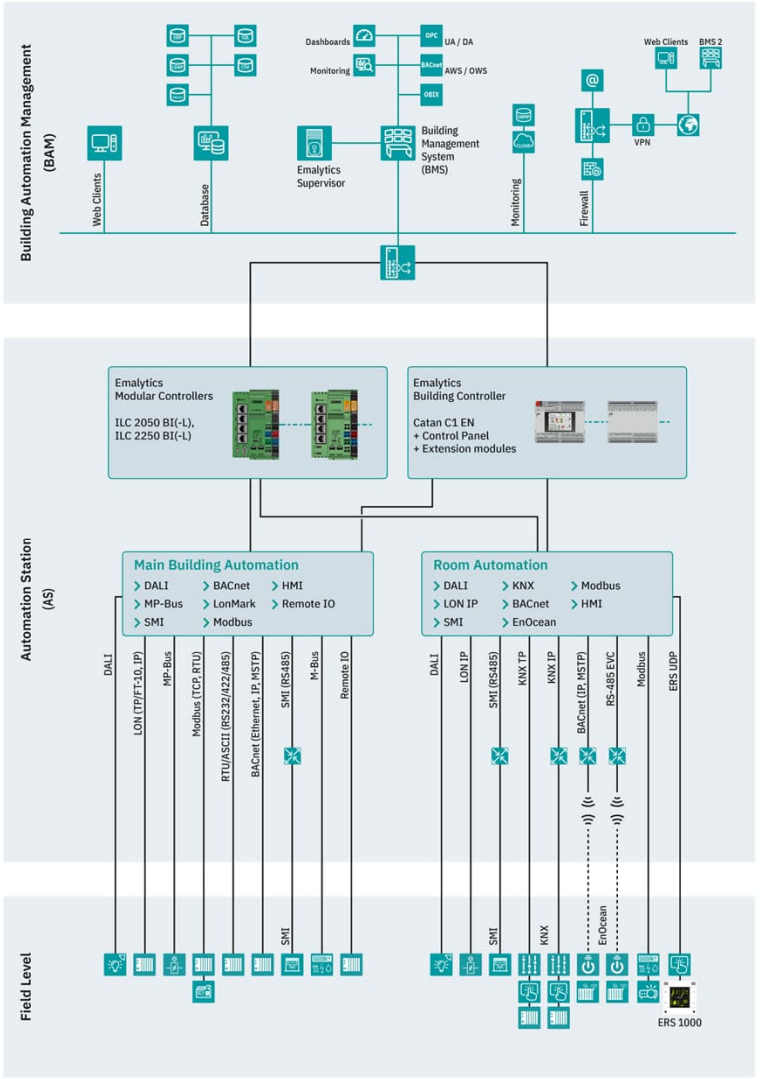
KNX and Niagara Framework

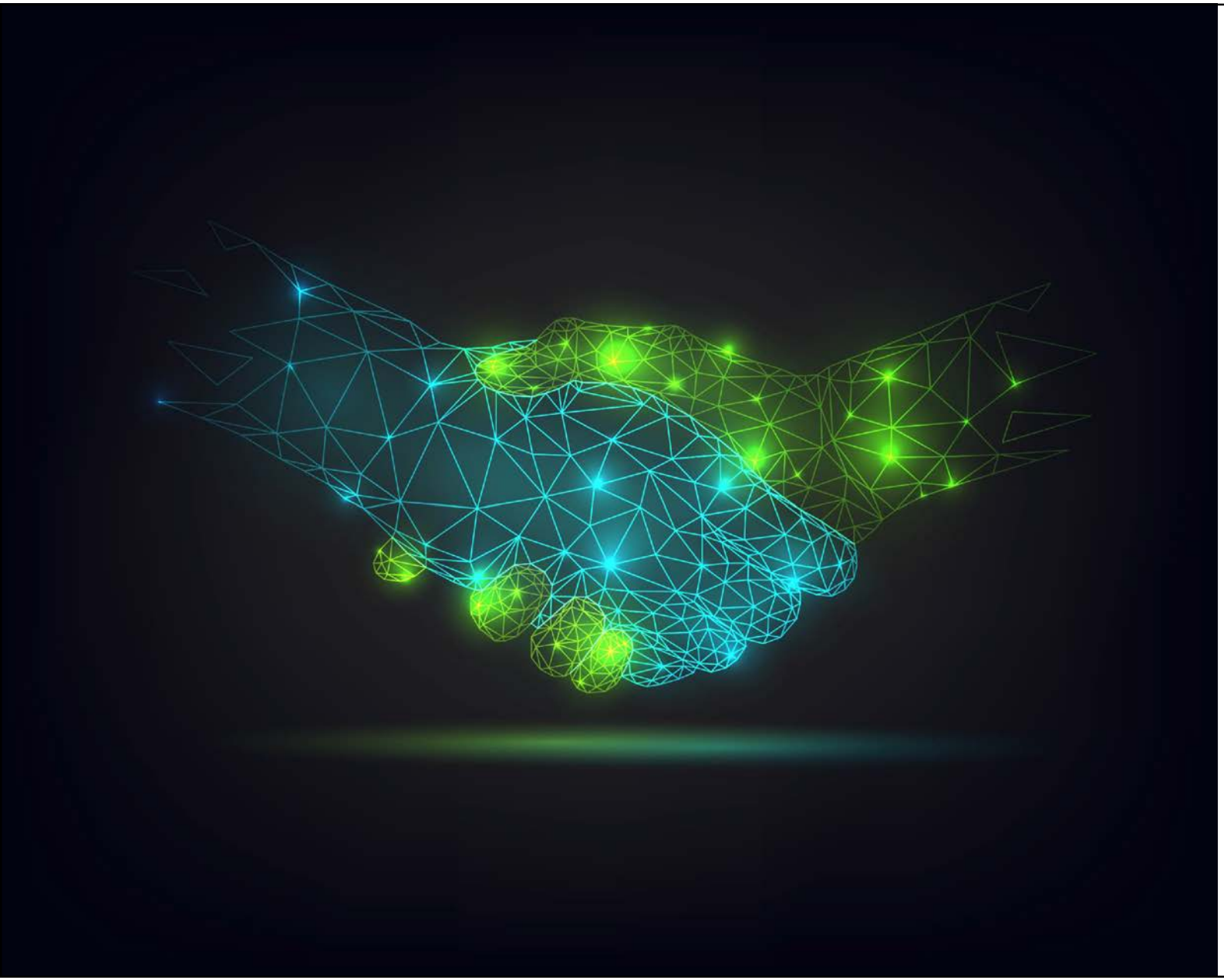
Application Example - Niagara DALI control



KNX and Niagara Framework

Application Example - Bridging the gap





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