





## IP500® OEM Solutions for Commercial Buildings & Industrial Facilities

Most robust & approved IoT wireless network

IP500® OEM Representatives





## IP500 Applications as ECO System



### **IP500®**— ECO system for Commercial Buildings







Direct connection to security serviWireless Congress and mobile deviWireless Congress



Wireless sensors make the smart building safe and efficient



Dynamic and secure management of security team and employees









Smart management of energy consumption & light systems

Smart acWireless Congresss control for indoor and outdoor



# IP500® Applications – OEM Solution - Lighting





#### **LIVELINK WIRELESS**

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#### LIVELINK WIRELESS WITH REDUNDANT IP500 INFRASTUCTURE



INSTALLATION

- Simple and fast replacement of luminaires with IP500 Network and retrofitting of DALI control cables.
- Higher value to end user due to interoperability with sensing devices



**COMMISSIONING** 

- Easy setup and management of the wireless IP500 network with the LiveLink Install App.
- Higher value for end user easy commissioning with sensing devices



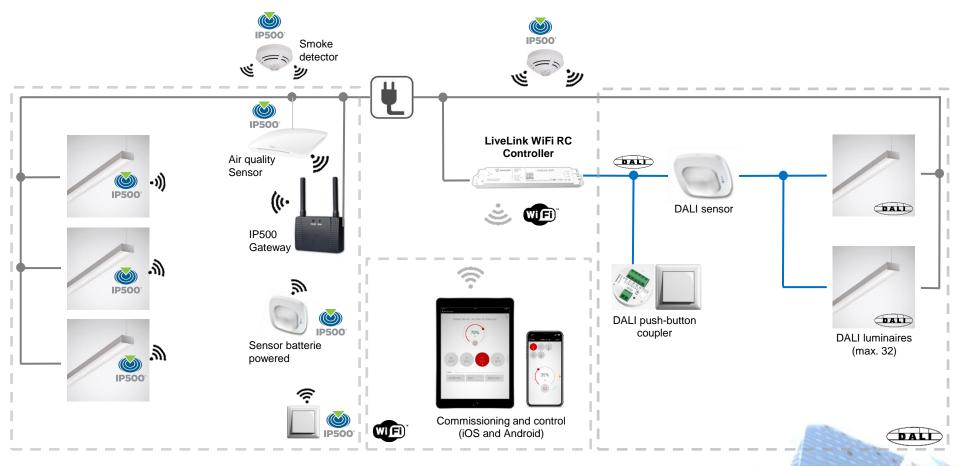
**FLEXIBILITY** 

- Mixed operation of DALI and IoT lighting devices in same IP500 Network
- Flexibly and scalable extended from small to large wireless IP500 network with IP500 redundant infrastucture





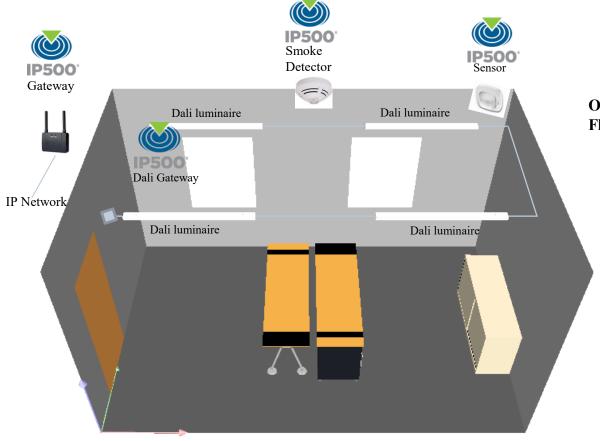
#### LIVELINK IP500 WIRELESS - OVERVIEW







#### LIVELINK WIRELESS – EXAMPLE SINGLE/DOUBLE OFFICE



#### Office with 4 surfaced luminaires (e.g. Solvan Flow)

- 4 (64) Dali luminaires
- 1 IP500 / Dali Gateway
- All luminaires and the push-button coupler are connected with mains voltage - DALI wiring needed

Mains voltage with 2 wire Dali



## IP500® Applications – OEM Solution – DALI / IP500 Converter



### Product Flyer – DALI / IP500 Converter









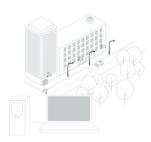
### THE RISING OPEN STANDARD FOR WIRELESS SMART DEVICES IN BUILDING AUTOMATION

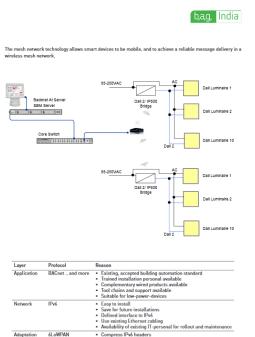
#### APPLICATIONS

- · Access Control, Locks
- Fire & Smoke Detection
- · Escape route systems
- Intrusion Detection
- · Lighting & Climate Control
- · Messaging & Localization and more...

#### **FEATURES**

- Open non-proprietary solution, 2nd source will be available
- Interoperable BACnet /IP
- IPv6 ready (Internet of Things) Ultra-Low Power
- Powered by Battery, Energy Harvesting or AC/Mains
- Compliant with EN-Security & Safety Regulations
- Backwards compatible









#### THANK YOU FOR YOUR ATTENTION!

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### **IP500® OEM Solution – Examples**



#### **IP500 Window Drives & Roof Sensors**















Controlling standard SHEV drives with relais interface and IP-500

### **IP500 Window locks / Handles & magnetic Sensors**







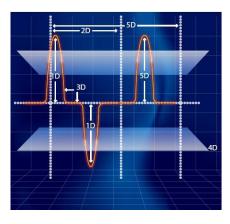
#### **IP500 Motion Sensors**











Allows IP500 TAGs to be in secured IP500 area

#### IP500 TAG / Badge (IP500 Localisation / Access)









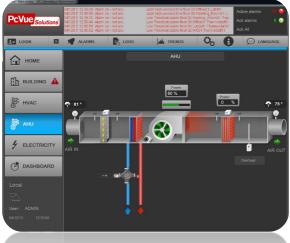
#### **IP500 BMS Solution with mobility functions**













# IP500® Project for Interoperability Tests



#### IP500 Demo Room in Freiburg i.B., Germany

- IP500 performance with multiple OEM products
  - Shows the superior network performance
  - High density nodes in one building
  - Real time monitoring the results (status and performance per node over time)
- Installation with redundant gateways, repeaters
- Application combined as ECO system
- Results are shown at cloud level, as well locally at field test at the facility management









### Thank You! Questions?

#### **IP500 Board of Directors:**

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Holger Wallmeier IP500 Co-Chairman

Patrick Knödler IP500 System Integration

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