News 06/2023 – e64Pro V 2.0.0

Content

1. IPAS DaliControl e64Pro V2.0.0

In this newsletter we inform about new functions and features of the IPAS DaliControl e64Pro Gateway. The Multi Master Controller e64Pro gets a complete software update with version 2.0.0. Not only the firmware of the units has been revised, but also the ETS application and the DCA.

- Firmware V2.0.0
- ETS Application V2.0
- DCA V2.0.0.0
- Application Description V2.0.x

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Firmware, ETS application, DCA and the current application description are now available for download on our website:

https://www.ipas-products.com/catalogue?ref=4101-145-02

2. IPAS PROtect / KNX secure

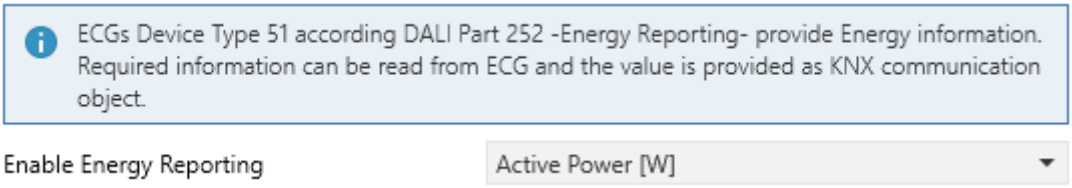
- All IPAS units with a "Pro" in the name belong to our PROtect Serie
- PROtect units can be commissioned in the ETS secure

3. General Soft-Start Behaviour

- Parameters/General/Behaviour
- Set General Soft-Start Behaviour
- Setting applies to all ECGs

4. Energy Reporting according to DALI Part 252

- Read out current power from ECGs with DT-51
- Determining the power consumption in the lighting system
- Enables savings opportunities through more efficient lighting
- Output of the active power in "W" or the current energy consumption in "Wh



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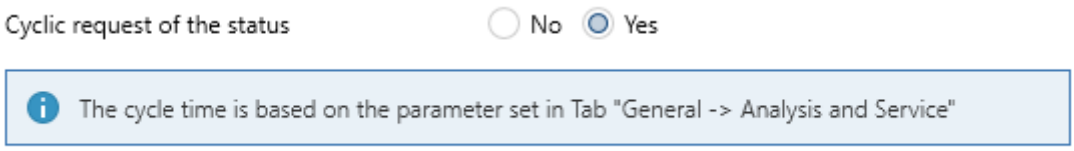
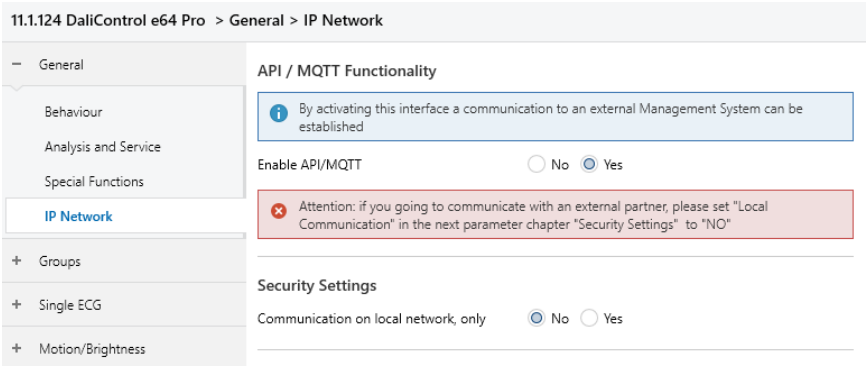
5. Cyclic status request of individual EVG´s

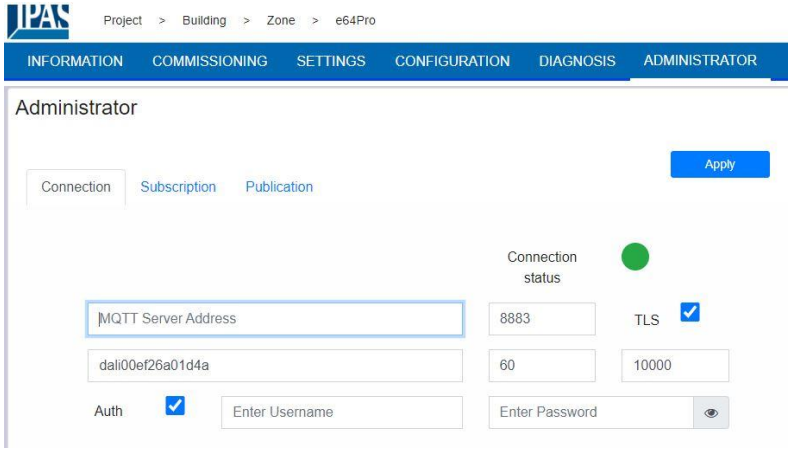
- Set cyclical status request of individual ECGs
- To receive status feedback from passive DALI controllers
- For luminaires from non-DALI systems



6. e64Pro speaks MQTT in the IoT Network

Activate MQTT function in the parameters of the ETS applications





Configuration of the MQTT connection in the web interface

- Connection
- Subscribtion
- Publication

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The following information and functions are provided to the IoT network:

▼ e64Pro
status = online
info = {"Manufacturer":"IPAS GmbH","Type":"0x0308","Name":"DALI Gateway e64Pro","Version":"2.0.1","Serial":"00ef:26a0428b","projectId":"","buildingId":"","zoneId":""}
▼ config
groups = [{"Number":1,"Name":"RGB","ColorType":7,"CntEcgs":4,"CntConverter":0},{"Number":2,"Name":"RGB TC","ColorType":11,"CntEcgs":1,"CntConverter":0},{"Num
ecgs = [{"Number":1,"ShortAddress":6,"LongAddress":11039602,"GroupNumber":1,"Name":"RGB 1","DeviceType":8,"ColorType":4},{"Number":2,"ShortAddress":5,"Long
statistic = {"CntLamps":9,"CntEcgs":9,"CntConverter":0,"LampFailures":0,"EcgFailures":0,"ConverterFailures":0,"LampFailRate":0,"EcgFailRate":0,"ConverterFailRate":0,"
▼ sensor
▼ 1
brightness = {"Error":0,"Value":280}
presence = {"Error":0,"Value":0}
temperature = {"Error":0,"Value":25.7}
▼ 2
brightness = {"Error":0,"Value":112}
presence = {"Error":0,"Value":0}
humidity = {"Error":0,"Value":43}
▼ group
▼ 1
statistic = {"CntLamps":4,"CntEcgs":4,"CntConverter":0,"LampFailures":0,"EcgFailures":0,"ConverterFailures":0,"FailRate":0,"OperatingHours":0}
status = {"Mode":0,"Value":0}
colour = {"Colour":{"rgb":{"r":255,"g":0,"b":0}}}
▼ 2
statistic = {"CntLamps":1,"CntEcgs":1,"CntConverter":0,"LampFailures":0,"EcgFailures":0,"ConverterFailures":0,"FailRate":0,"OperatingHours":0}
status = {"Mode":0,"Value":100}
colour = {"Colour":{"tc":3500,"rgb":{"r":181,"g":171,"b":255}}}
▼ ecg
▼ 5
status = {"Mode":0,"Value":100}
colour = {"Colour":{"rgbw":{"r":255,"g":0,"b":0,"w":255}}}
▼ 7
status = {"Mode":0,"Value":100}
colour = {"Colour":{"tc":3500}}
▼ 8
status = {"Mode":0,"Value":100}
▼ 9
status = {"Mode":0,"Value":100}
▼ knx
▼ 1
status = {"Value":127.0,"Unit":"KW"}
▼ 2
status = {"Value":108.0,"Unit":"KW"}
▼ 3
status = {"Value":223.0,"Unit":"KW"}

- General device information such as status, info and statistics
- Group information contains name, colour type and number of ECGs and converters
- Information on ECGs such as number, address, group affiliation, name as well as device and colour types
- Groups status, colour, error and operating hours
- ECG status, colour, error and operating hours
- Test results and test status of emergency luminaires
- Sensor measured values such as brightness, presence and generic values
- Measured values and units of the generic KNX objects
- Control of the groups and all ECGs

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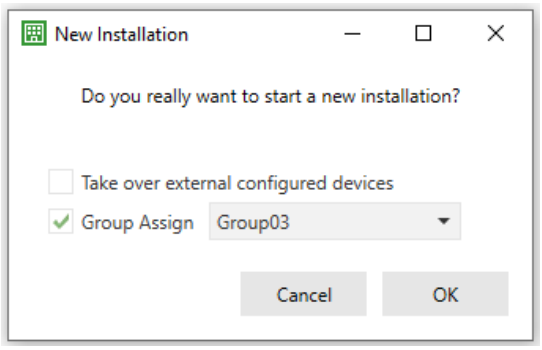
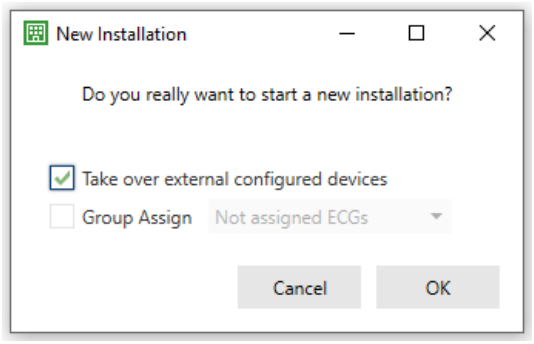
7. ECG installation into predefined groups



- Can be used for New- and Postinstallation
- Function available in DCA and in the web interface
- Makes identification of each individual ECG unnecessary
- Assignment of the ECGs to the groups is not necessary
- Saves a lot of time during commissioning or post-installation
- The prerequisite is that each DALI group is protected by its own load switch

8. Take over of already externally configured devices



- Takeover of already externally configured ECGs for a new installation
- Short and long addresses are read
- Preservation of the group assignment

9. Calling up scenes und effects time-controlled

- Use already configured scenes in time control
- No double configuration necessary
- Designing time control templates more clearly
- Start and stop effect sequences time-controlled
- Configurable in the DCA and in the web interface
- Time saving when configuring time control

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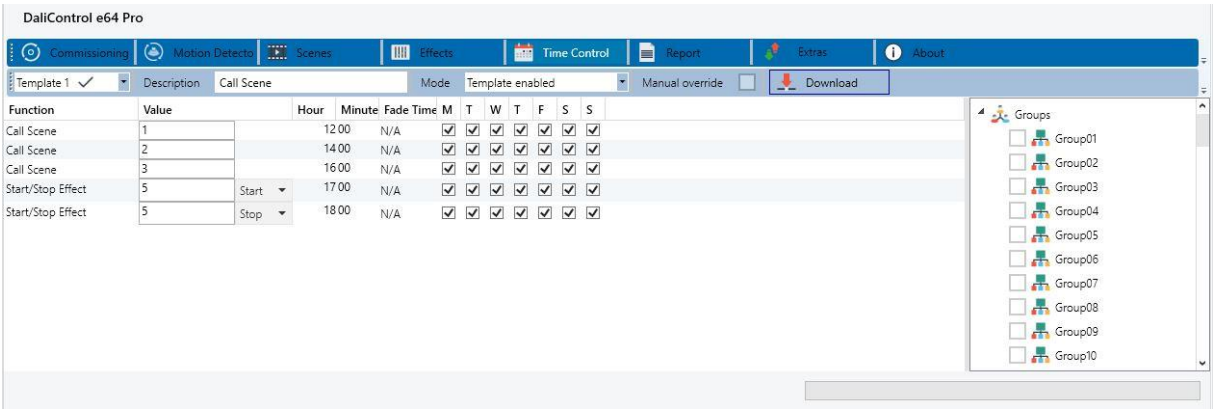
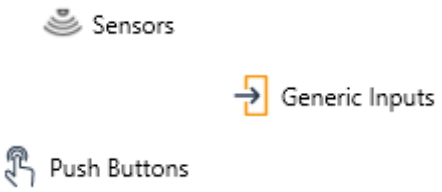


10. Overview of DALI Input Devices

- „Virtual Input Devices“
- Motion detectors
- Brightness sensors
- Generic DALI Inputs
- Push Buttons
- Generic KNX Inputs



11. Read out GTIN from Input Devices

- Reading out the GTIN of DALI2 units in the DCA
- Copy function of the GTIN in the DCA
- Clear identification of installed unit types
- Query the GTIN in the official database of the DALI Allience / DiiA
  https://www.dali-alliance.org/products
- Quickly find technical data and documentation from the manufacturer
- Saves a lot of time during installation

12. Concept of „Virtual Input Devices“

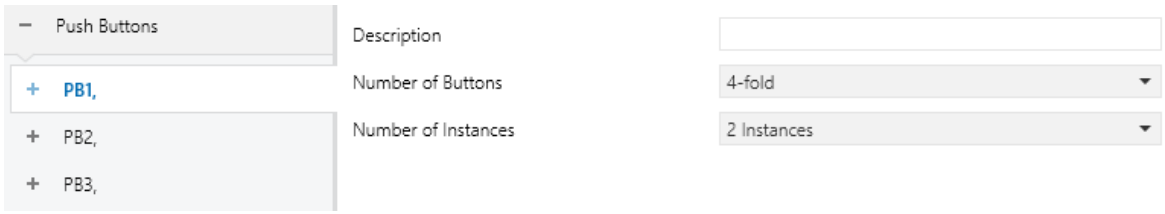
- Virtual input devices for motion detectors, brightness sensors and push-buttons
- Multiple instances of different physical input devices can be linked to a virtual input device
- Linking is done in DCA simply by drag-and-drop
- Simple master/slave configuration of motion detectors
- Quick configuration of several brightness sensors to determine a min., max. or average value
- The configuration of a virtual push-button can be applied to up to 4 physical push-buttons in parallel

Concept of "Virtual Input Devices" using the example of a long corridor with 3 motion detectors:

Virtual motion detector with 3 instances

physical input devices

A virtual push button in the DCA can also be parameterised with up to 4 physical instances:



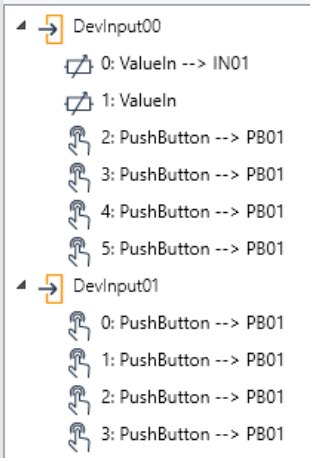
Example with 2 real Dali push-buttons with the same configuration or mode of operation:

Virtual 4-fold push-button with 2 instances

PB01

Type	Flag	Description	Addr	Instance No.
L	Plan	PB01	0	2
L	Plan	PB01	1	0
R	Plan	PB01	0	3
R	Plan	PB01	1	1
L	Plan	PB01	0	4
L	Plan	PB01	1	2
R	Plan	PB01	0	5
R	Plan	PB01	1	3

physical pushbuttons

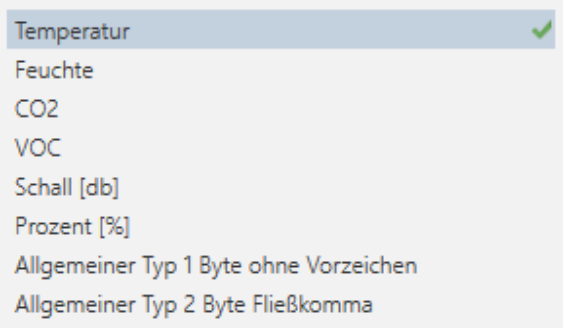


13. Motion detectors and brightness sensors

- Extension of the parameters for movement and brightness
- 2 point limit value light control
- Automatic and manual operation
- Manual override of automatic operation adjustable
- Fallback to automatic mode after override parameterisable
- Max. 7 parallel instances for motion and/or brightness sensors for easy master/slave configuration
- Min., max. or averaging of the brightness value when using several instances
- KNX object for external setting of the off-delay time for motion detection
- Brightness limit value for light control adjustable via external KNX object
- External KNX trigger input to enable extended master/slave operation with KNX devices

14. Generic DALI Inputs

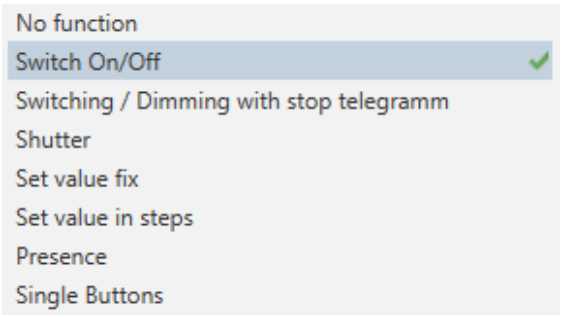
- Max. 8 Generc Inputs
- Manufacturer-specific correction of the measured values by multiplicative and additive factors
- Definable min. and max. Limit alarms for all generic DALI sensors
- Support for different sensor types



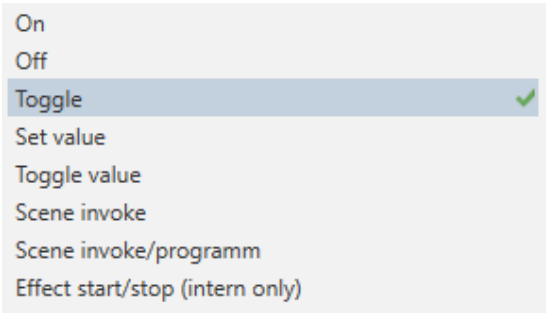
15. DALI Push Buttons

- Max. 8 DALI push-buttons configurable in the gateway
- 2-4 button pairs configurable per push-button
- Support of LED status feedback
- Max. 4 instances for easy configuration of several push-buttons with the same functions
- Use as button pairs or as single buttons
- Button functions can be used internally for groups, ECGs, scenes and effects
- Functions of the DALI buttons can also be used via KNX objects

Functions Button pairs:

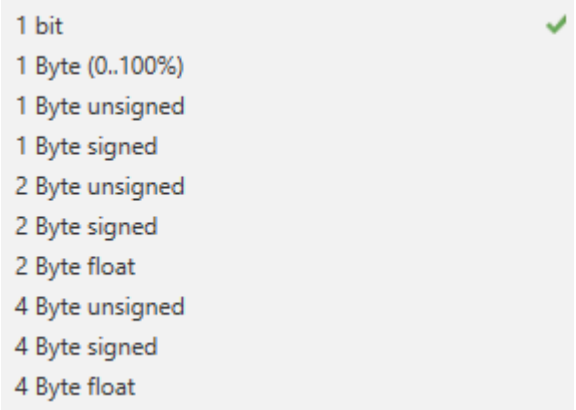


Functions Single Buttons:



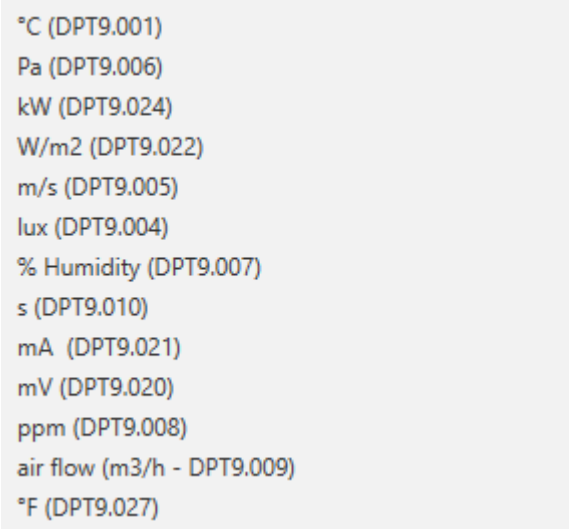
16. Generic KNX Inputs fort he IoT network

- 16 additional generic KNX objects
- KNX measurement or status values send via MQTT to the IoT
- Variety of data types
- Many common measuring units



Examples of available units:

2 Byte float:



4 Byte float: