

### MAJOR CHANGES

- knx-ip-secure + monitor-knx-data-secure
- control scheduler from KNX (enable/ disable)

### MAP

- added polygon label content "name + value" and "room-name + value"

### SCHEDULER

- also show astro-offset in combo-box of edit schedule box

### LOGIC MODULE

- added hysteresis image + show live-value in edit trigger + hysteresis dialog
- new: invert input value
- new: show as alarm/ alarm (inverted) with selectable color

### COMMON

- upload-project dialog: added progress bar and change OK-button color
- new: upload monitoring backup dialog
- added "Create new devices" button to empty floor (tile-view)
- show [?] over device symbol for "device value unknown" (device health)

### REMOTE ACCESS

- speeded up loading device values when being connected

### KNX

- new: knx-ip-secure + monitor-knx-data-secure (no read/write group-address)
  - note: always uses tunnel-interface 0
- new: knx health
  - listen to device heartbeat
  - have backup group-address to read device, if nothing has been received
  - alive time can be configured (2 minutes for test/demo, 1/2/6/12/24 hours)
  - shows "alive" status in SYSTEM menu and PDF report
  - loading progress for esf-table
  - improved loading performance for esf-table
- new:
  - sensor 14byte text
  - password protected switch (toggle, on, off, on-off)
- new: "interface devices" as interface to knx-bus
  - scheduler: enable/disable from knx + feedback to knx
  - timer: receive on/off from knx
  - scene: receive scene from knx

### SEVERAL FIXED ISSUES AND IMPROVEMENTS

### **NEW:**

- new design
- MQTT-client
- remote access
- software update from internet
- list of available DPT
- copy room/level
- dialog for passwords

### **UI CHANGES:**

- scheduler now memorizes previous action/days
- colour scheme selectable for "bool devices" line switch, on-off sensor
- new colour scheme "red-grey" for tiles/polygon, also added red occupied icon to map-symbols

### **NEW KNX DATA POINTS:**

- DPT 9.020 voltage (2byte float) [mV]
- DPT 14.027 voltage (4byte float) [V]
- DPT 7.600 colour temperature (2byte) [K] as sensor
- DPT 13.100 time seconds (4byte) as sensor

### **SEVERAL FIXED ISSUES AND IMPROVEMENTS**

### NEW:

- Scene Controller: triggered by KNX scene, play sequences
- Logic Gates: AND, OR, NAND, NOR, XOR
- Timer module: staircase, on-off-delay
- DPT 14.019 electrical current [A], 4 byte float

Several UI improvements

### CHANGES:

- Scheduler: actions are detected automatically

### NEW:

- Symbol size „small, normal, large“ in map-view
  - these are hidden at different zoom-level
- Symbol for lamp error
- New login screen with custom project image
- Topology menu with building level  
(project now can have multiple buildings in navigation)
- Shutter positions „sun-protection (half closed)“ and „airing-position (almost closed)“
  - can be triggered by scheduler

### NEW UI's:

- New UI “Dimmer with custom on-off buttons”
- New UI “Select scene”. Admin can configure scenes to select and give them clear name like “TV”, “Cleaning”, ...
- New UI “Show date & time”
- New UI “Link to webpage”

### CHANGES:

- Changed temperature setpoint +/- from DP „1.008 (up=0/down=1)“ to „1.007 (inc=1/dec=0)“

### COMMON:

- New:
- Draw as device polygon in map-view
  - Configure device appearance:
    - Map view: symbol, polygon, hide
    - Tile view: symbol, hide
- Changed:
- number input style:
    - removed arrows (too small for touch operation, also very small on desktop PC)
  - always uses shutter position 0% (top)...100% (bottom)
- Fixed:
- fixed: change floor by „<“, „>“ in title bar did not always work
  - fixed: new password was requested after uploading monitoring backup
  - „Send time / date“ group address could not been saved

### SYSTEM-STATUS:

- Changed:
- changed: pdf system report -> time now printed in grey for better readability
- Fixed:
- system-status: number of connection errors not shown on web-page, only in PDF

### MONITORING:

- Changed:
- ensure always showing a graph & some min-range
  - kWh now logs the last received kWh value instead of the difference to previous log-value
  - monitoring for „sensor present-absent“ now shown as „Occupancy [%]“
- Fixed:
- reset operating time

### SCHEDULER:

- New:
- „Edit value box“ for dimmer, shutter, set-point
- Fixed:
- „Repeat scheduler yearly not working at year break, e.g., from November - march“

### FLOORPLAN VIEW:

- Fixed:
- „align horizontal/vertical not working“

### NEW UI's:

- dimmer: slider + tile switch
- dimmer: send value with custom button-text
- sensor day-night, heating-cooling
- custom boolean sensor
  - selectable colour-scheme
  - custom on-off text
- configure motion sensor (follow-up-time, lux-value, sensitivity)
  - time/lux also from scheduler
- Brightness range/ follow-up time format (seconds or minutes) and sensitivity steps can be configured (similar to HVAC fan speed, ...)

discontinued auto-login for user on browser level  
(a cookie was used before to remember user is logged in):

- Android/iOS/Window APP are doing the auto-login, so this is not needed anymore on browser level
- now has higher security

hide "all floors" when user has "select floor permission"

mark floor with pending alarm (added a in case of pending alarm "!")

introduced vprj3-file contains vprj2-file and all images

invert shutter position (user can choose between "100% = top" or "100% = bottom")

update dimmer value while move slider (max. every 200ms)

alarm inverted

### **SCHEDULER:**

- twilight (dusk, dawn)
- HVAC-controls (temperature, mode, control mode, on/off)

### **AUDIO CONTROL:**

- play/pause; next/prev title
- random, repeat
- volume, mute
- new/prev playlist + playlist name
- artist, album, title name

### **REMOTE FOR HEATING CONTROLLER:**

- setpoint temperature +/-
- show current temperature
- HVAC mode (standby, comfort, ...)
- 1bit object for setpoint +/- (alternative to send 2byte value)

### **REMOTE FOR HEATING / COOLING CONTROLLER (MURAT):**

- heating/cooling bit as alternative to HVAC-control-mode

### **UI FOR DIMMER ON MOTION SENSOR HVAC CHANNEL:**

- connected luminaires to the HVAC channel can be switched and dimmed by slider

### **IMPROVED KNX DEVICES:**

- search by text
- zebra style esf table
- non used group addresses are highlighted in red
- open esf file moved to top, next to the esf filename
- sort group-address, name main/mid/sub up-down