

HOME STANDARDS – SMART ELECTRICAL SYSTEMS

TAP Home system with the following specifications:

INPUT

Included in the project: cabling prepared for an outdoor motion sensor (client customisation)

Control:

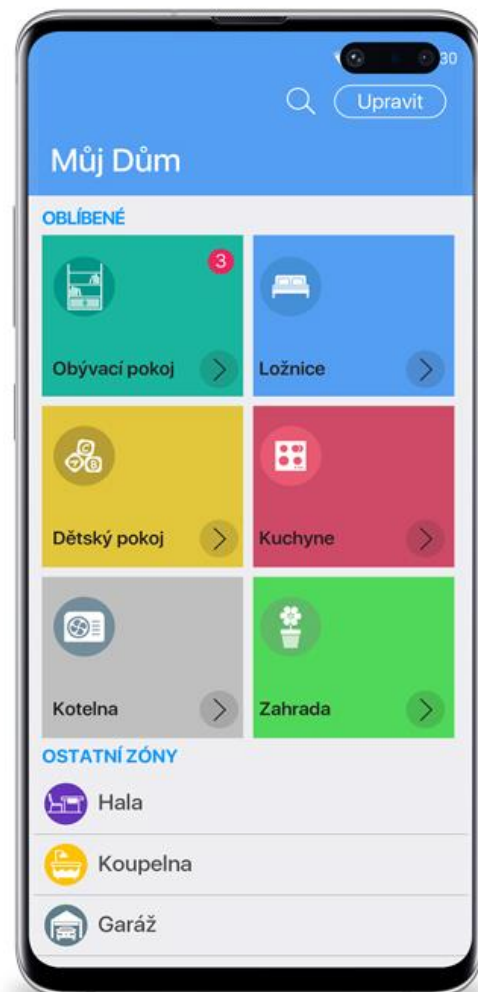
1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× smart outdoor light switch and the integration in the light scenes respecting day modes and room types

Additional technology:

1× video gate keeper with a remote audio visual connection including an assembly box and a source; makes a call when no one is at home.



HALLWAY (1.01)

Control:

1× Schrack Visio 45 including 4 buttons with an integrated thermometer and a Leave Home Button

1× design card reader with a PIN keypad supporting the Wiegand protocol by Taphome with a wide range of access control options including the configuration of access cards and entry codes for every user

1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) integrated in the light scenes respecting day modes and room types; night dimming

Shading and control:

1× automatic switch for electrical floor heating including an overheat sensor

Alarm system:

1× integrated magnetic contact for open door monitoring, including an interface with the alarm features of the system

1× siren for acoustic confirmation

1× indoor acoustic siren interfaced with the alarm features of the system

UTILITY ROOM (1.02)

Included in the project: preparation for the installation of solar panels (a roof shaft).

Control:

1× integrated smart Schrack Visio 45 with 1 button (the button is included in the package)

Light control:

1× smart light switch and the integration in the light scenes respecting day modes and room types

Alarm system:

1× flood sensor integrated in the alarm features of the system

1× water metering including water use statistics



1× electric water shut-off valve with automatic water shut-off in case of emergency (the valve is not included in the package)

1× fire detector with an alarm device interfaced with the alarm features of the system and the fire alarm control panel

Additional technology:

1× heat recovery integration and control using Modbus RTU protocol with the automatic output regulation based on the house mode, people's presence in the house and based on values from attached sensors (e.g. CO₂)

1× integration and smart humidifier control

1× power metering in the 3-phase circuit including the monitoring of current consumption and including power use statistics

TOILET (1.03)

1× automatic switch for electrical floor heating and an overheat sensor

Control:

1× integrated non-smart Schrack Visio 45 with 2 buttons (the button is included in the package) to switch on a heated towel rail for 2 hours

1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types

Shading and control:

1× automatic control for a heated towel rail serving simultaneously as a secondary heat source in the room for 2 hours

STUDY – WALK-IN CLOSET (1.04)

Control:



1× Schrack Visio 45 including 4 buttons with an integrated thermometer to control lights, shades and cooling

1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× smart light switch and the integration in the light scenes respecting day modes and room types

Shading and control:

1× integration and control of exterior shades with the smart autopilot shading option including emergency pulling down in the event of strong wind

1× smart automatic switching of a panel heater

LIVING ROOM – KITCHEN – DINING ROOM (1.05)

Control:

1× Schrack Visio 45 including 4 buttons with an integrated thermometer to control lights, shades and cooling

1× integrated smart Schrack Visio 45 with 1 button (the button is included in the package)

1× Schrack Visio 45 with 6 buttons for easy shade operation

Light control:

4× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) integrated in the light scenes respecting day modes and room types; night dimming

Light fixtures:

2× integration and control of a dimmable 24V LED strip which is integrated in the kitchen cabinets (the source and the strip are not included in the package)

Shading and control:

3× integration and control of exterior shades with the smart autopilot shading option including emergency pulling down in the event of strong wind



1× smart automatic switching of panel heaters (merged into one circuit)

Alarm system:

1× integration of a magnetic contact in the portal to monitor its opening, interfaced with the alarm and operation features of the system

1× fire detector with an alarm device interfaced with the alarm features of the system and the fire alarm control panel

1 flood sensor (mounted at the dishwasher)

Additional technology:

1× wall-mounted tablet for central control of all house features including audio and video communication with the video gate keeper

1× melody doorbell (either Gong or Melody)

1× WiFi access point (2.4 GHz and 5 GHz) interfaced with other access points for efficient extending of the WiFi signal

1× CO₂ sensor

GARAGE (1.06)

Convactor control and an optional fire detector can be added within the framework of client customisation

Control:

1× Schrack Visio 45 including 2 buttons with an integrated thermometer to control lights and the garage gate

1× fully mounted 360° motion sensor with a brightness sensor (for light control, for automatic mode control and for the alarm system)

Light control:

2× smart light switch and the integration in the light scenes respecting day modes and room types

Alarm system:

1× preparation for an EV charging station with the possibility of connecting a 3-phase device enabling switching and automatic disconnection in the event of absence



3× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

1× integration of a magnetic contact in the portal to monitor its opening, interfaced with the alarm and operation features of the system

Additional technology:

1× garage door monitoring with the possibility of monitoring its opening/closing, open door detection and the alert feature

1× 400V socket “EV Charging Station”

SECOND FLOOR CORRIDOR AND THE STAIRCASE (2.01)

Control:

2× fully mounted 360° motion sensor – staircase, corridor (for light control, for automatic mode control and for the alarm system)

1× Schrack Visio 45 with 1 button

Light control:

1× automatic circuit of smart night staircase lighting to be used in the night mode

1× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) integrated in the light scenes respecting day modes and room types; night dimming

Alarm system:

1× fire detector with an alarm device interfaced with the alarm features of the system and the fire alarm control panel

Additional technology:

1× WiFi access point (2.4 GHz and 5 GHz) interfaced with other access points for efficient extending the WiFi signal

TOILET (2.02)

Automatic floor heating control interfaced with the bathroom.



Control:

1× integrated non-smart Schrack Visio 45 with 1 button (the button is included in the package)

1× fully mounted 360° motion sensor with a brightness sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types; night dimming

BATHROOM (2.03)

The flood sensor protects your house when your washing machine fails.

Control:

1× Schrack Visio 45 including 4 buttons with an integrated thermometer to control lights, shades and cooling

1× integrated non-smart Schrack Visio 45 with 1 button (the button is included in the package) to switch on a heated towel rail for 2 hours

1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

2× control panel (mirror, ceiling) for a dimmable light fixture with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types

Shading and control:

1× integration and control of exterior shades with the smart autopilot shading option including emergency pulling down in the event of strong wind

1× automatic switch for electrical floor heating and an overheat sensor

1× automatic control for a heated towel rail serving simultaneously as a secondary heat source in the room



Alarm system:

1× wire flood sensor integrated in the alarm features of the system

BEDROOM WITH A WALK-IN CLOSET (2.04)

For added convenience, it is possible to add night lighting using a LED strip and a sensor installed in the headboard of your bed within the framework of client customisation.

Control:

1× Schrack Visio 45 including 4 buttons with an integrated thermometer to control lights, shades and cooling (including bedside lamps)

3× integrated non-smart Schrack Visio 45 with 1 button (the button is included in the package)

1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

2× smart bedside lamp switch and the integration in the light scenes respecting day modes and room types

2× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types; night dimming

Shading and control:

1× integration and control of exterior shades with the smart autopilot shading option including emergency pulling down in the event of strong wind

1× smart automatic switching of a panel heater

CHILDREN'S ROOM 1 (2.05)**Control:**

1× Schrack Visio 45 including 4 buttons with an integrated thermometer to control lights, shades and climate



1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types; night dimming

Shading and control:

1× integration and control of exterior shades with the smart autopilot shading option including emergency pulling down in the event of strong wind

1× smart automatic switching of a panel heater

1× CO₂ sensor

CHILDREN'S ROOM 2 (2.06)

Control:

1× Schrack Visio 45 including 4 buttons with an integrated thermometer to control lights, shades and climate

1× fully mounted 360° motion sensor (for light control, for automatic mode control and for the alarm system)

Light control:

1× control panel for a dimmable light fixture with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types; night dimming

Shading and climate control:

1× integration and control of exterior shades with the smart autopilot shading option including emergency pulling down in the event of strong wind

1× smart automatic switching of a panel heater

1× CO₂ sensor

OUTDOOR AREAS

The project features cable preparation for a CCTV system (CAT 7 cables pulled to house corners).

Light control:

1× control panel for a dimmable outdoor light fixture (driveway, garden, terrace) with a continuous operation mode (turning on and off) for added convenience integrated in the light scenes respecting day modes and room types; night dimming

2× smart light switch and the integration in the light scenes respecting day modes and room types

Alarm system:

1× backed-up outdoor siren interfaced with the alarm features of the system for visible signs of alarm

Additional technology:

1× weather station providing data on wind speed, temperature and sunlight level with a shades protection feature

1× preparation for retention tank control

1× preparation for secondary water shaft valve control

1× preparation for patio sunshade control

- **Cabling** prepared for retention tank control
- **Cabling** prepared for secondary water shaft valve control
- **Cabling** prepared for patio sunshade control
- **Cabling prepared for future extension to the EZS Jablotron system (for the clients who would like to have their house's alarm system connected to the Central Monitoring Station operated by the Police of the Czech Republic in the future)**

