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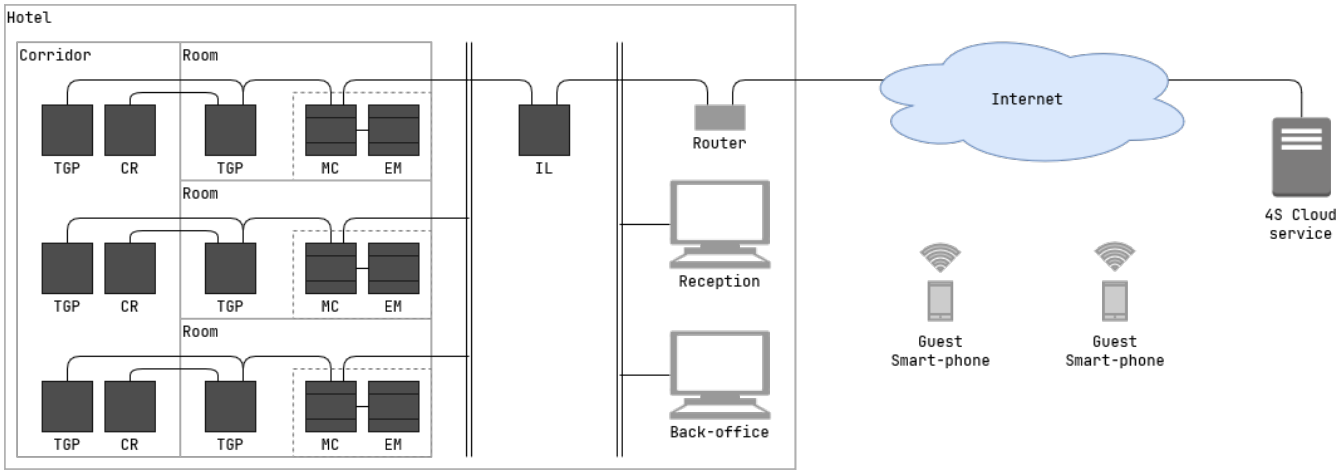
GRMS IQ

HIQ GRMS is a control system based on the **MC** controller with corresponding expansion modules (**EM**). There are usually two 4-inch touch screens (TGP), one in front of the room in the corridor and one in the room. If necessary, more displays can be added in the room.In front of room there is Access code reader (**CR**). Several readers are supported: QR code reader, RFID reader, Bluetooth, ... The reader can be replaced by a keyboard on the external TGP.



TGP	4“ Touch Graphical Display
CR	Access code reader (QR, RFID)
MC	Master Controller
EM	Expansion modules
IL	IOT Linker

The PC application **HIQ GRMS Configurator** is used for settings and testing when starting the room, or for diagnosing and troubleshooting problems during use.

IOT Linker (**IL**) with installed S-GRMS application is used for:

- control and management of rooms via a WEB interface intended for hotel staff (reception, back-office)
- room management via a mobile WEB interface intended for hotel guests
- data API for 4S Cloud service and any 3rd party application

4S Cloud service enables advanced hotel management:

- advanced access code management
- connections to HIS and PMS systems
- advanced process management

Common GRMS functionalities

Room mode

- it is determined from:
  - room booking status: can be triggered manually or automatically when a valid access code is entered
  - smart-presence: is calculated automatically using the door opening sensor and the room motion sensor
- affect on:
  - lighting and shades: upon entering / exiting the room, the lights and shades are set to a preset scene
  - HVAC: different setpoints for an unbooked room, a booked room, when there is a guest in the room - day and night mode
- advantages:
  - comfort for the guest: at the entrance, the lighting and shades are set to a comfortable level, the HVAC is adjusted to the guest's wishes
  - energy saving: when the guest is not in the room, the lights are turned off, the blinds are set to the position that is the most energy-saving given the external conditions, the HVAC is set to economy mode

Door-bell

- integrated door-bell that is activated on the external touch panel and displayed on the internal one
- direct unlocking of the door on the inner panel
- disabling the door-bell when the guest does not want to be disturbed and turns on DND

Smart-presence

- is detected on the basis of the opening of the door and the detection of movements in the room and also according to other sensors (light / blinds push-buttons, touch of the touch panel, ...)
- there is no need for a card holder
- high reliability of determining presence - less possibility of faking presence by the guest

DND / MUR

- integrated activation of the DND and MUR signal from the touch panel in the room, which appears on the display in front of the room and on the application at the reception
- enables simpler and faster consideration of the guest's wishes

SOS

- activation with a pull switch or with a button
- signaling and possible cancellation on the panel in the room
- signaling on the application at the reception

Fire alert

- it is determined on the basis of the absolute temperature or according to the gradient of the temperature increase from the sensor used for HVAC regulation
- no need for additional sensors
- it does not replace a fire alarm system

Power supply management

- 2 power management branches are possible,
  - one is activated when the room is booked (refrigerator) and
  - the other when there is a guest in the room

Ventilation

- bathroom ventilation is activated according to the light in the bathroom (with a delay)
- adjustable automatic ventilation shut-off
- adjustable automatic daily ventilation that prevents unwanted musty smells

Wake-up alarm

- the wake-up alarm can be set on the panel in the room
- the guest can turn on a scene that gradually activates before the set alarm time
- the wake-up alarm can be set from the reception via the application (easy guest support)

Lights

- easy and intuitive operation (push-buttons, touch panel, motion sensor at the entrance)
- automatic activation of scenes upon entry (depending on the type of code and room occupancy)
- automatic switching off of all lights when leaving the room
- **evo-light**: the temperature of the lighting color automatically adjusts to the time of day (cold white in the morning, daylight white during the day and warm white in the evening)

Blinds

- easy and intuitive operation (push-buttons, touch panel)
- automatic activation of entry scenes (depending on the type of code and room occupancy)
- automatic activation of exit scenes (depending on the position of the sun, the outside temperature and the heating / cooling needs)

Scene

- scenes include preset lights and shades
- when the scene is triggered, the lights / shades are set to the preset values
- easy scene setting

- possible triggering on events (on entry, exit) and from the touch panel in the room or from the reception via the application

HVAC

- heating / cooling settings (temperature setpoint, fan level) according to room status: idle / booked / guest / guest-night
- switching off depending on the openness of the windows / doors
- easy setupon the room panel
- automatic resetto default values when changing guests
- supervision from the reception
- possibility to use different heating / cooling devices and combinations thereof (convectors, radiators, air conditioners, underfloor heating)
- the temperature sensor serves as an additional fire-alert sensor

Access

- room access codes stored in the local controller (including code type, time limits and number of entry limits)
- master code for easy code manipulation in exceptional cases (non-functioning network)
- entry rules according to code type
    - guest and security codes are enabled depending on the time and count limit settings of the code itself
    - access with the service code is additionally limited by the DND function and depending on the presence of the guest (when the guest is in the room the service code automatically triggers door-bell)
- all access events are logged locally and synchronized with the server
- possible use of different code formats (QR, RFID, NFC, BLE depending on the reader used; viegand readers are supported)
- possible use of different electric locks (mortise, magnetic, strike,...)
- triggering different entry scenes depending on the card used (the guest's wellcome scene is activated at the entrance, and the cleaning scene is turned on for the cleaning lady)