GRMS + NETx - integrated solution for enhanced guest experience

NETx AUTOMATION

Advantages for hotel owners, facility manager, etc.

Guest Room Management

1. Lighting control
2. Climate control
3. Shading
4. DND/MUR
5. Presence/Absence

+

Software for hotel building

1. Gateway to all LMS & BMS hardware
2. Gateway to PMS/door lock
3. Room control for hotel guest on mobile
4. Visualization for hotel staff and guests
5. Master supervision for complete hotel buildings

+

**Guest
Entertainment App, IP TV**

Multiple interfaces available

→

1. Optimized guest comfort, security.
2. Connected services offering enhanced efficiency of overall management of the hotel building, hence reducing operational cost.
3. Single vendor point of contact for guest room hardware and software needed.
4. Integration of all main services e.g. BMS/Fire/Access/Door Lock/PMS in one system.
5. Unified master visualization for facility managers, maintenance staffs.

Enhanced project opportunity for system integrators

Advantages for system integrators

Guest room solution

Single hardware manufacturer for all GRMS devices

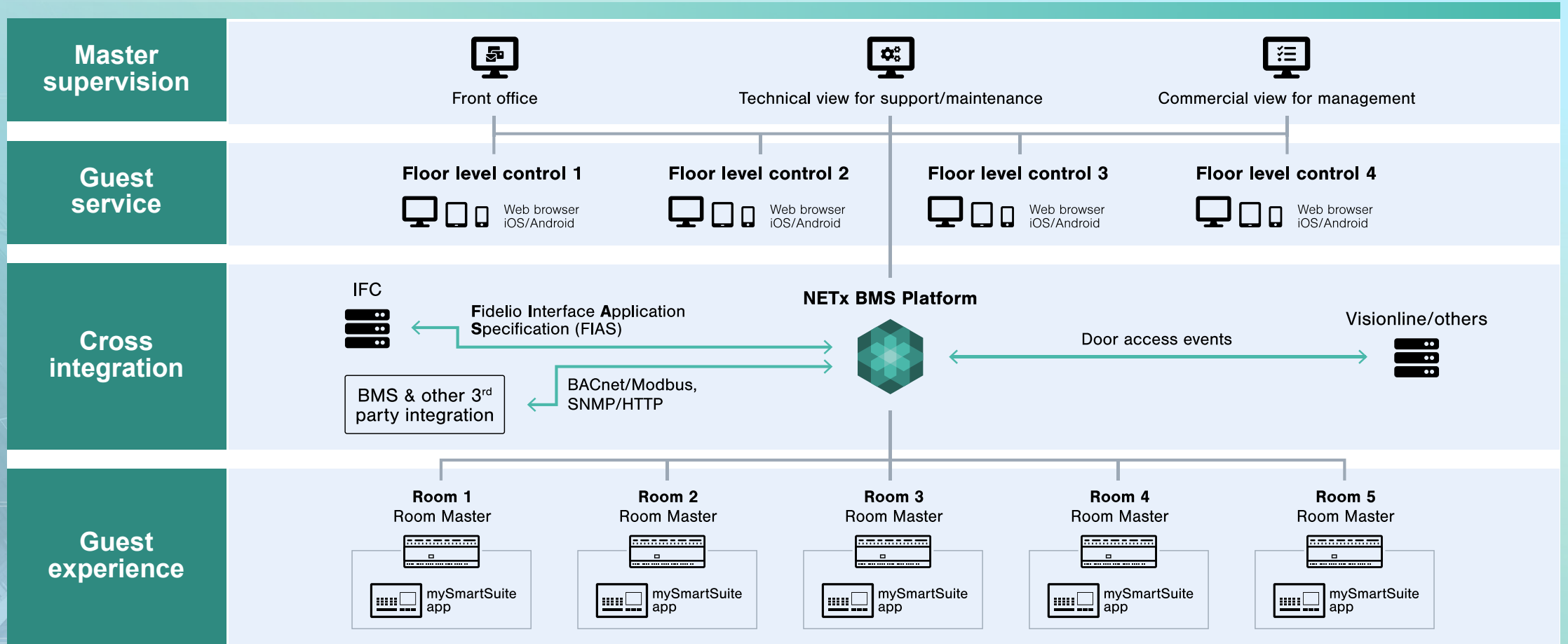**+**

Software for hotel building

1. Connectivity to all building automation systems including PMS
2. Offer multiple master visualization types
3. Technology handshake with other service providers
4. Offer enhanced features in automation of the hotel e.g., logic across connected systems, energy saving function for green hotel

→

1. Able to meet higher specification jobs and compete in the market with set players in hospitality segment
2. Additional revenue from software and integration to other systems
3. Position itself as technology consultant to improve brand image
4. No need to explore multiple hardware vendors for cross integration
5. Ability to offer customized visualization as per hotel's graphical/functional need
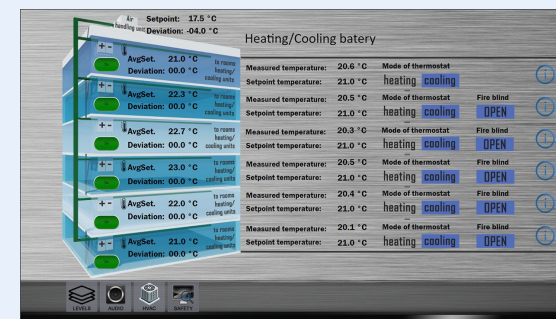
Functional solution

NETx AUTOMATION

Complete, integrated and flexible package for any type of hotel tailor-made

Secure IP based solution
Device monitoring including status and warnings

Separate function and HMI-Design for different departments
Front-office, housekeeping, engineering/IT, and management on PC, tablet, mobile

Air conditioning, heating, cooling, lights, blinds/shutter, sensors/actuators

Energy and resource management for operator

Display panel for room status, DND, MUR

Integrates guest rooms, common areas, surrounding

Secure guest mobile access for control GRMS in room – MySmartSuite (BYOD)

Overview of connected hotel solutions

NETx AUTOMATION

Master supervision

Front office
Technical view for support/maintenance
Commercial view for management

Guest service

Floor level control 1 — Web browser iOS/Android

Floor level control 2 — Web browser iOS/Android

Floor level control 3 — Web browser iOS/Android

Floor level control 4 — Web browser iOS/Android

Cross integration

IFC

NETx BMS Platform

Visionline/others

Fidelio **I**nterface **A**pplication **S**pecification (FIAS)

Door access events

BMS & other 3rd party integration

BACnet/Modbus, SNMP/HTTP

Guest experience

Room 1
Room Master
mySmartSuite app

Room 2
Room Master
mySmartSuite app

Room 3
Room Master
mySmartSuite app

Room 4
Room Master
mySmartSuite app
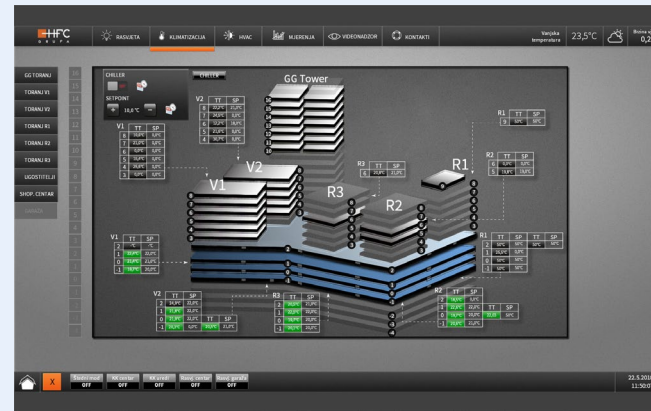
Room 5
Room Master
mySmartSuite app

Supervision and visualization – for facility managers

- Master supervision
- Guest service
- Cross integration
- Guest experience

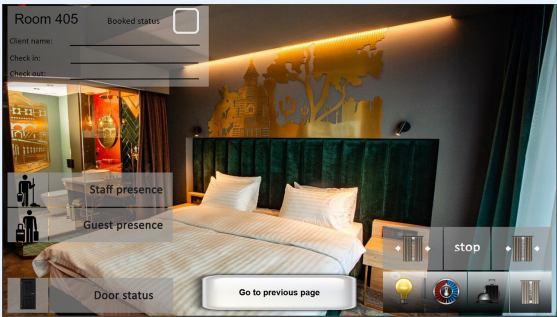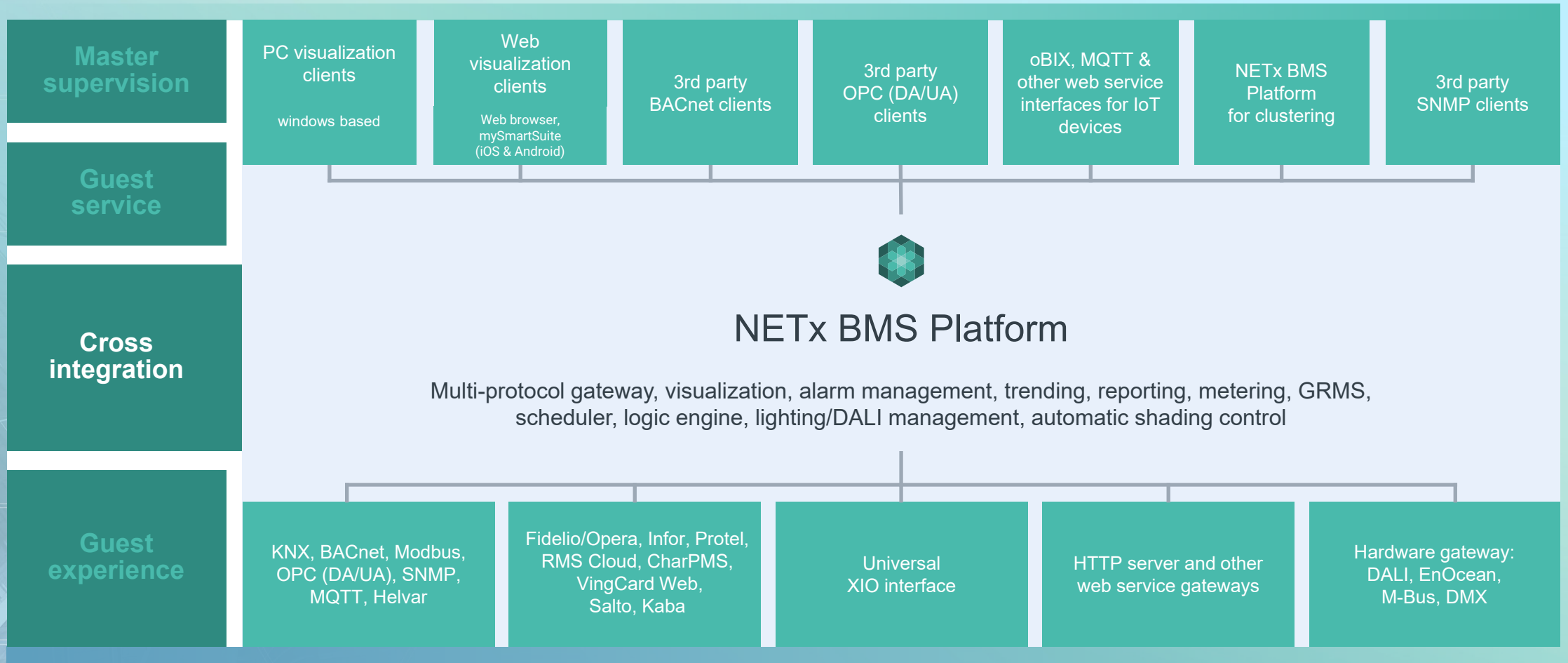# Supervision and visualization – for house keeping / maintenance

Cross integration with complete hotel building eco system

NETx AUTOMATION

Master supervision	PC visualization clients windows based	Web visualization clients Web browser, mySmartSuite (iOS & Android)	3rd party BACnet clients	3rd party OPC (DA/UA) clients	oBIX, MQTT & other web service interfaces for IoT devices	NETx BMS Platform for clustering	3rd party SNMP clients

Guest service

Cross integration

NETx BMS Platform

Multi-protocol gateway, visualization, alarm management, trending, reporting, metering, GRMS, scheduler, logic engine, lighting/DALI management, automatic shading control

Guest experience	KNX, BACnet, Modbus, OPC (DA/UA), SNMP, MQTT, Helvar	Fidelio/Opera, Infor, Protel, RMS Cloud, CharPMS, VingCard Web, Salto, Kaba	Universal XIO interface	HTTP server and other web service gateways	Hardware gateway: DALI, EnOcean, M-Bus, DMX

Supervision and visualization – for guest rooms

Guest room management with mySmartSuite app

NETx mySmartSuite
(only available with NETx Cloud Portal)

Easy access to the room visualization via QR code	Guests use their own smart phone (Android and iOS supported)	Check in and check out information incl. room change

Full integration with hotel PMS

NETx mySmartSuite - fully customized app for each room type

Room control and secure visualization

Only for the assigned hotel room

Valid only during the booked period

Available for Android and iOS

Automatically installed and configured via QR code

Control of lighting, shutters/blinds and HVAC in the room and everything else that is integrated via KNX, BACnet, Modbus, …
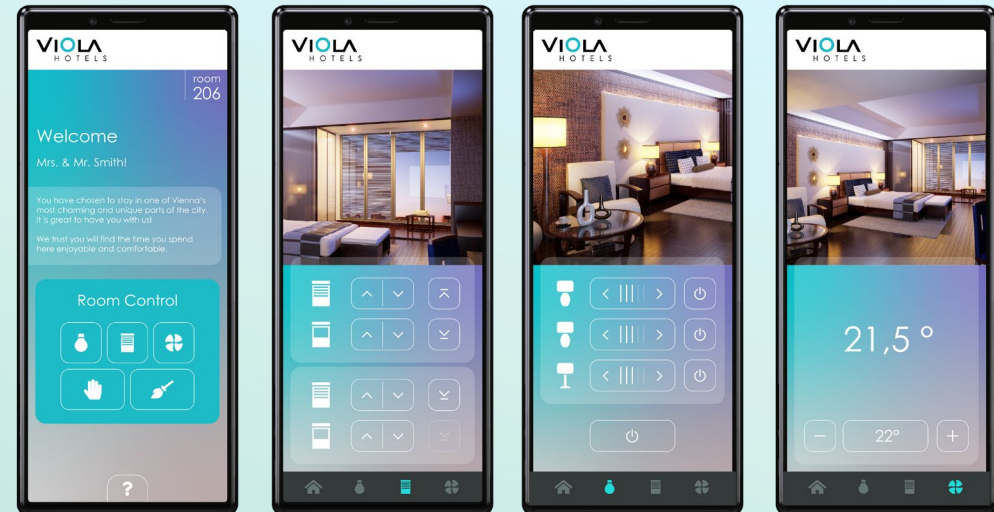
Fully customizable user interface
(integration of corporate identity, hotel logo)

Room access QR codes are renewed for every guest

Access to room control is automatically revoked after checkout

Secure web-based visualization via TLS

Main/Backup - for highest dependability using NETx solution

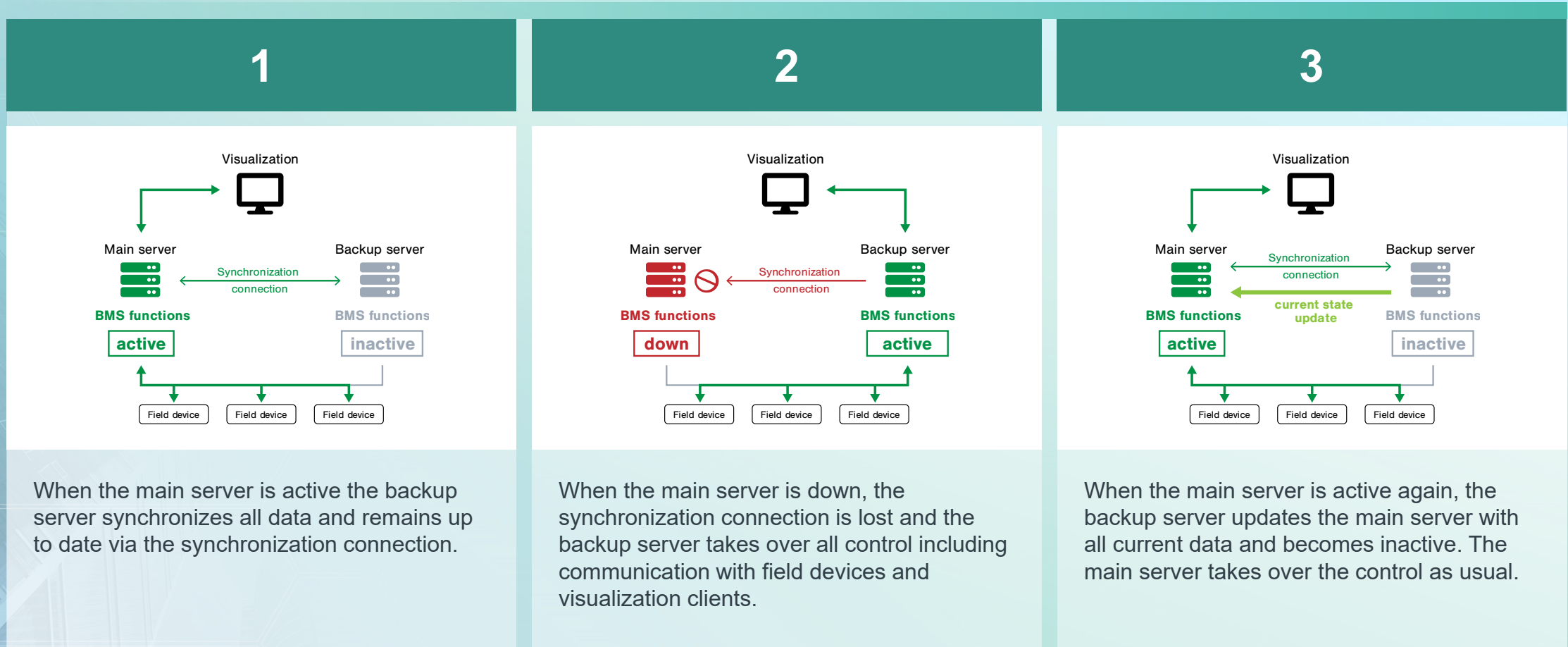| 1	2	3
Visualization	Visualization	Visualization
Main server — Backup server	Main server — Backup server	Main server — Backup server
Synchronization connection	Synchronization connection	Synchronization connection
BMS functions	BMS functions	current state update
active — inactive	down — active	BMS functions
Field device / Field device / Field device	Field device / Field device / Field device	active — inactive
		Field device / Field device / Field device
When the main server is active the backup server synchronizes all data and remains up to date via the synchronization connection.	When the main server is down, the synchronization connection is lost and the backup server takes over all control including communication with field devices and visualization clients.	When the main server is active again, the backup server updates the main server with all current data and becomes inactive. The main server takes over the control as usual.

Check list for a good estimation of software license type and price

Number of rooms	Data points (KNX group addresses, BACnet objects …)
Hardware/protocols which needs integration	Controlled/monitored or both
PMS/third-party system brands	Possible door lock system
Guest room app control	3rd party BMS integration details
How many guest app + other visualization	Fire alarm / DMX / UPS / power generator / electrical meters / water meters
Other areas of the hotel	

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