



Guest Room Management System

Smart Hotel Automation



About us

VDA Telkonet is a global leader in Energy Management Systems (EMS) and Guest Room Management Systems (GRMS) for the hospitality industry. With more than 80 years of combined R&D expertise, over **1 million smart rooms installed in 9,500 properties across 60 countries**, the Group provides scalable, customizable, and people-centric solutions that enhance energy efficiency, guest comfort, and operational performance.

In 2022, Telkonet (USA) became part of the Group, strengthening its international presence and technological capabilities. In 2024, Adria Electronic also joined VDA Telkonet, further consolidating the Group's know-how in design and innovation. Operating across Europe, North America, the Middle East, and Asia, VDA Telkonet is committed to building a more sustainable hospitality industry, supporting hotels, resorts, and multi-dwelling units in their path toward decarbonization and long-term value creation.



Our **Guest Room Management System** is composed by:



Software

Hardware



Etheos

Discover our software.

ETHEOS



Etheos

Etheos is the fifth generation of VDA's platform. Its **cloud-based** infrastructure simplifies accessibility, monitoring, and updating process of the **Guest Room Management System (GRMS)** allowing the supervision of the system from any device connected to the network.

Etheos encompasses a wide range of functions that enable full control of the property and ensures efficiency and optimization with a direct impact on the Hotel's costs.

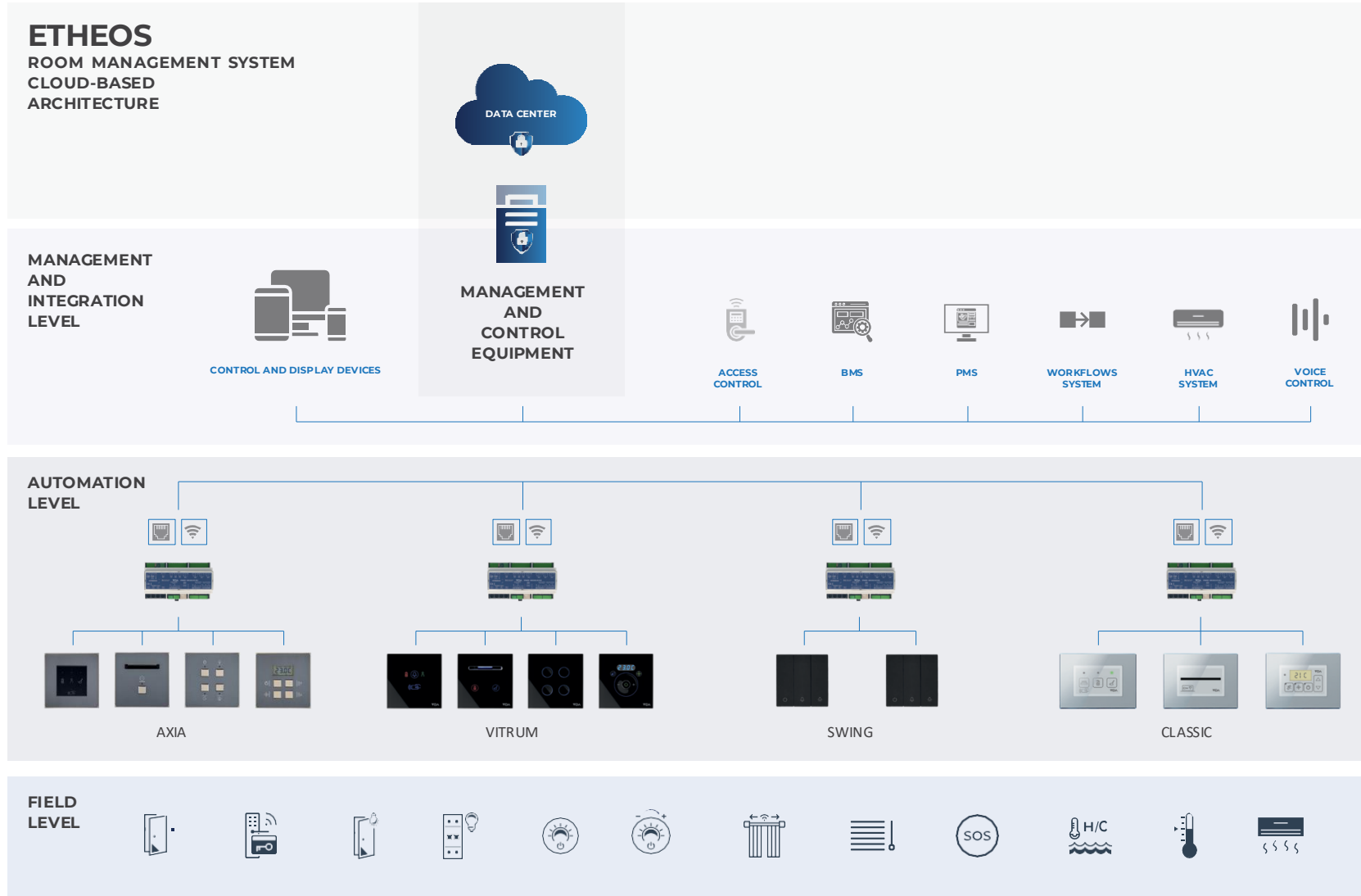
SaaS-based, it delivers scalable performance with secure access, data protection, and continuous updates, enhancing operational efficiency and guest comfort



From Design to Delivery: Our End-to- End Approach

For VDA Telkonet, being a solution provider means guiding clients through every stage of the project – from the initial consultancy to execution and aftersales support – turning complex requirements into concrete and sustainable solutions. This end-to-end approach, supported by our international experience and deep knowledge of local markets, allows us to deliver long-term value and position ourselves as true partners, not just suppliers.

How it works

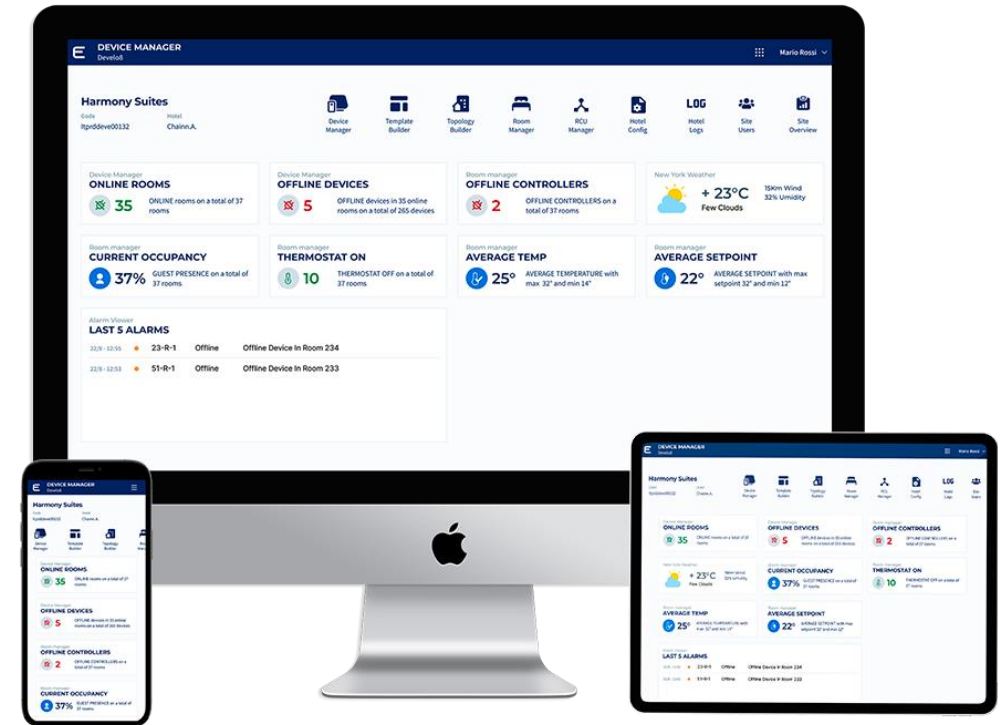


Web based User interface

The Etheos user interface is adaptive so it's available from any PC, tablet, and smartphone via browser by typing user credentials.

Unlike traditional automation systems, Etheos allows access to guest rooms and property facilities from anywhere in the world.

All updates, improvements, and new functions can be activated directly from VDA Telkonet team, and customers can always benefit from a new and perfectly efficient system.



Benefits of cloud



Accessibility & Monitoring

By connecting to the software from a mobile or desktop device, it is possible to access the platform and manage all the properties remotely, creating different functional profiles.



Data Security

All the data collected is transmitted to the software, hosted by Amazon Web Services, through highly secure protocols (TLS and HTTPS).



Flexibility & Scalability

Extending the control to other areas is simpler thanks to a flexible software service, totally configurable remotely through the use of web-based tools.



System Updates

The system guarantees 24-hour functionality and maintenance, integrated security and vulnerability updates.



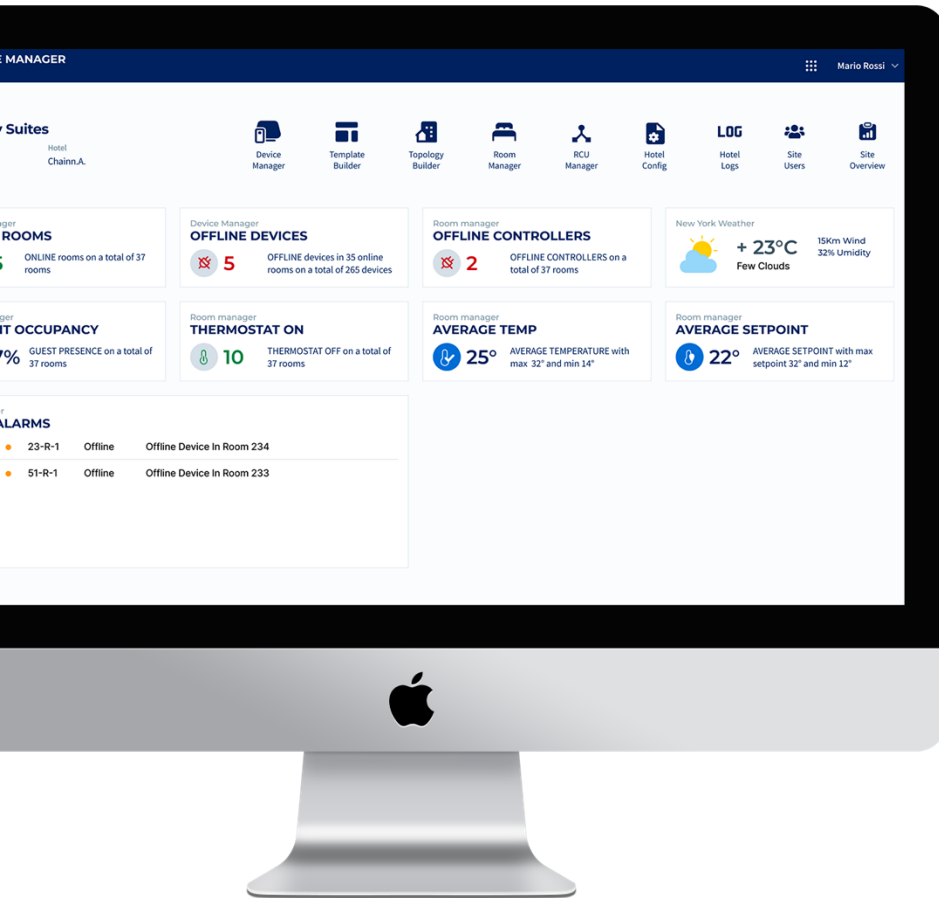
Energy efficiency

The system efficiency assists with controlling both direct and indirect costs for the property owner/manager.



Predictive maintenance

Predictive maintenance anticipates and develops targeted interventions in advance of problems.



Software Capabilities

- Occupancy monitoring and reporting.
- Management and monitoring of temperatures.
- Monitoring and reporting of the room functions (DND, MUR calls, alarms).
- Management of the access control (RFID, PIN code and mobile key).
- Display of out of service rooms.
- User activities tracking and report.
- Third-party integration (PMS, HVAC systems, BMS, door locks..).

Connected management



Api

All in-room functions and data can be monitored and controlled by third parties allowing TV set, mobile app, tablet, or external dashboard to display in-room situation.

Web portal access is provided to the nominated engineer, who develops and remotely tests the integration.



Alarms

The system tracks and reports alerts like lack of communication between the controller and Etheos room manager, and from the controller to the smart devices. Warnings are reported on the user interface whilst an integration with instant messaging app alerts the designated staff member who proactively takes care of the malfunctions or request.



PMS integration

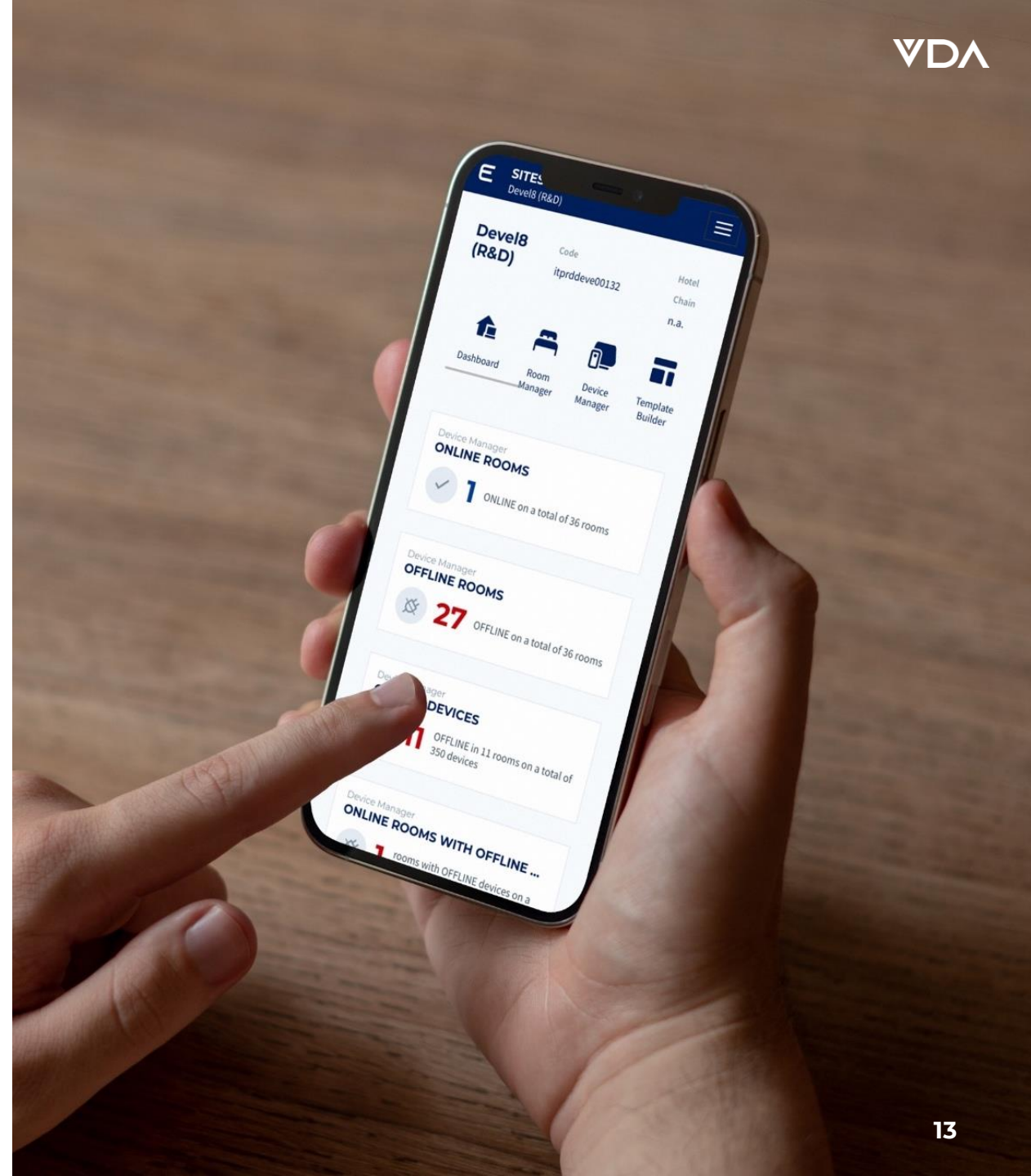
Etheos connects to the PMS so the energy savings in the room also uses the «*Sold/Unsold*» status. This enhances the energy savings.

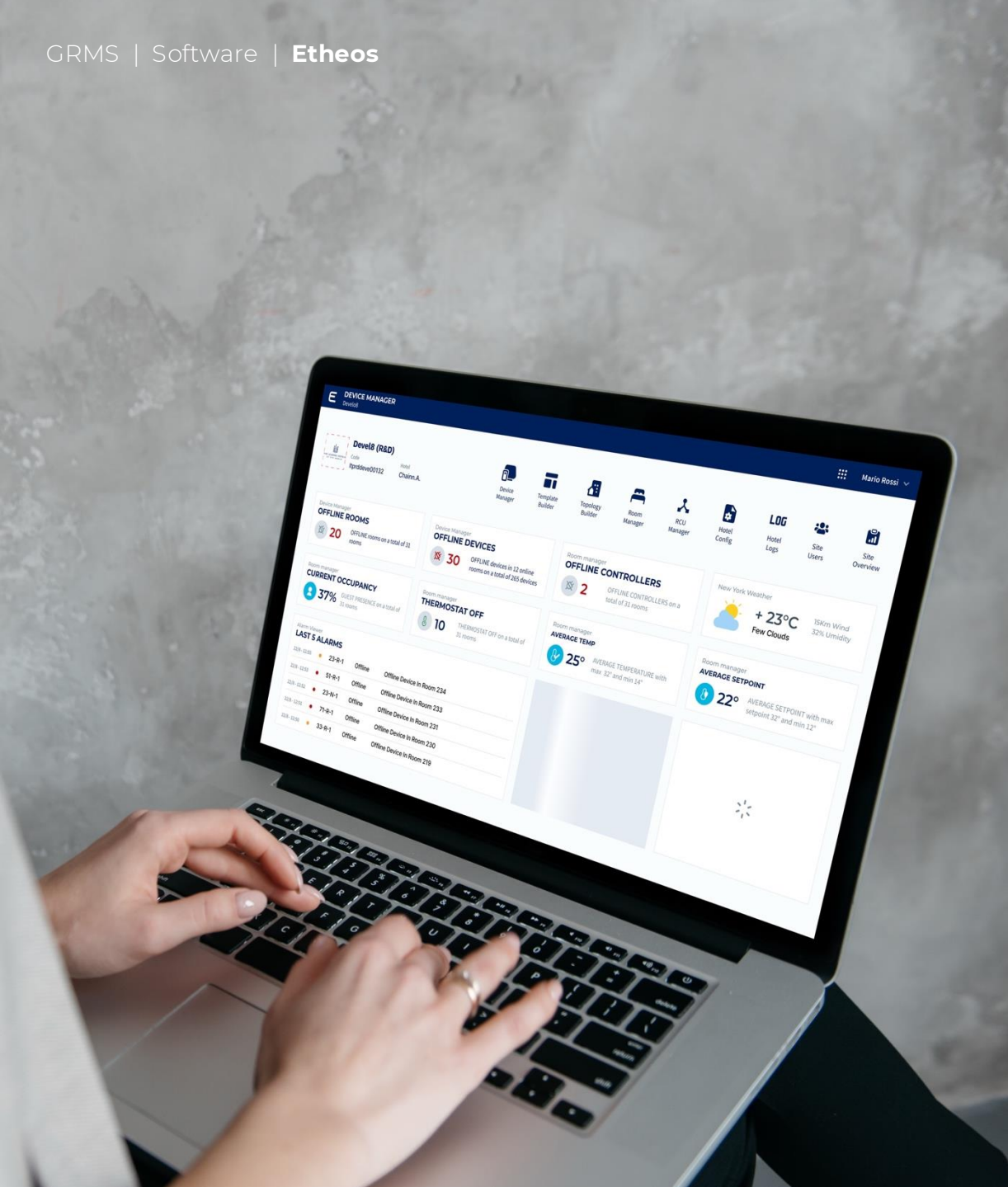
Setup and configuration tools

All configuration tools for Etheos and Nucleus controllers are accessible through a cloud-based web interface:

This allows setup even off-site and before system installation at the hotel.

This approach streamlines the process, enabling installers to work more efficiently and significantly reduce on-site time.





One platform, total control

This centralized system enables real-time monitoring and streamlined control of the entire hotel, and it also allows multiple hotels to be managed efficiently from a single software interface

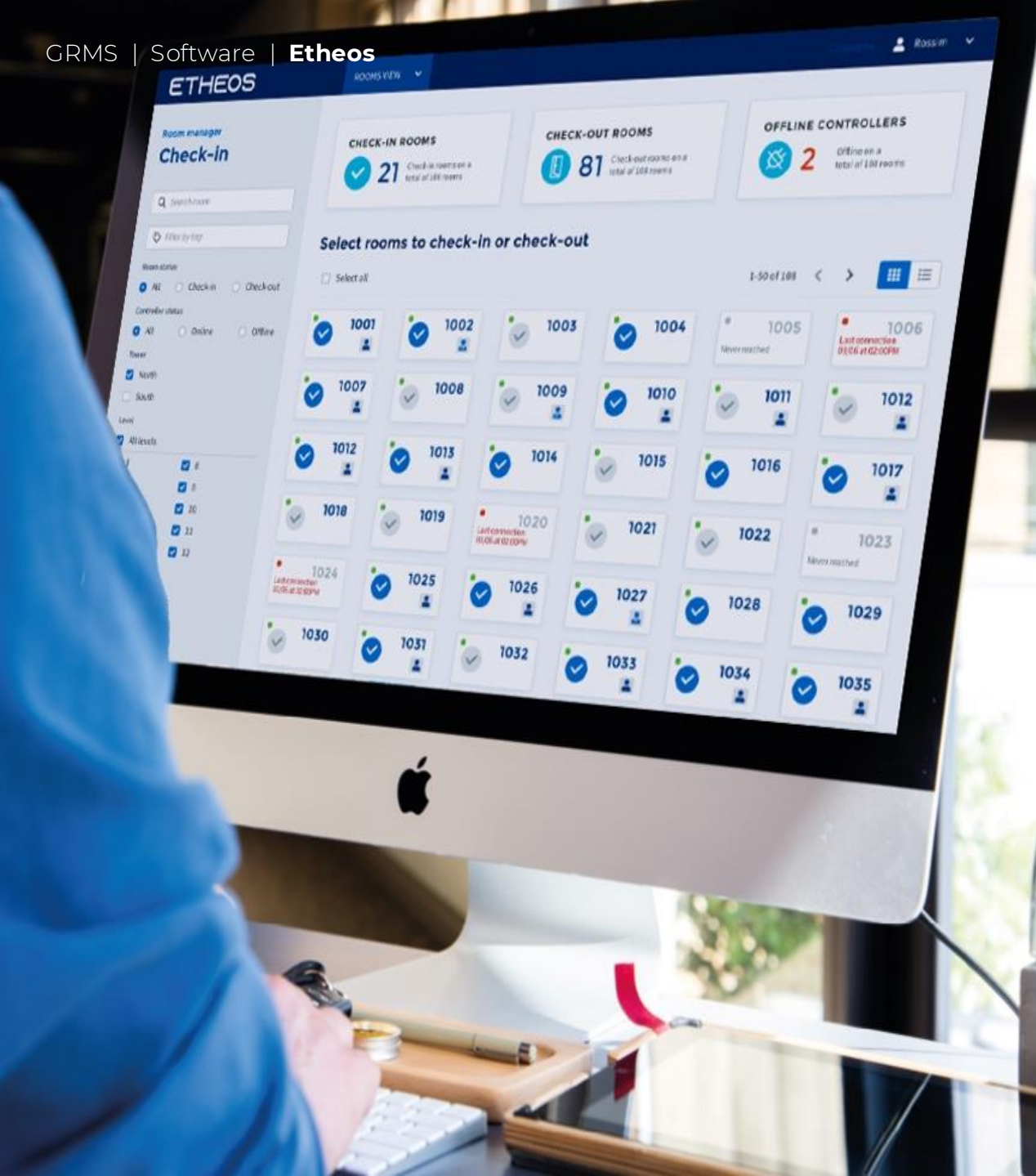
By connecting to the Etheos platform software via a mobile or desktop device, hotel staff can remotely access and manage operations across multiple properties.

Comprehensive HVAC control

Nucleus controllers are advanced, fifth-generation cloud-based devices designed to manage multiple HVAC zones through a single unit, reducing the need for multiple controllers both simplifying system architecture and reducing space requirements.

Etheos is compatible with various HVAC configurations - including FCU 2-pipe, 4-pipe, VRV/VRF, and custom setups - and can support mixed systems within a single zone, such as floor heating combined with VRV/VRF, a common solution in European properties.

The screenshot displays the ETHEOS HVAC control interface. At the top, the header shows 'ETHEOS' and 'ROOMS VIEW'. The left sidebar contains a 'Room manager HVAC' section with search and filter options. The main area shows summary cards for 'THERMOSTAT ON' (21 rooms), 'THERMOSTAT OFF' (81 rooms), and 'OFFLINE CONTROLLER' (2 rooms). Below these is a 'Select rooms to adjust the thermostat' section with a grid of room cards (1001-1016). Each card displays room number, thermostat status (Mid/Auto), current temperature (22.5°/23.5°), and fan speed. Room 1009 is highlighted with a blue border. The bottom right corner shows '15'.



Intuitive programming tools

The programming tools are designed with an easy-to-use interface, featuring smart functionalities such as scene targets and conditional rules. These tools simplify complex programming tasks, even for users without advanced technical knowledge.

Secure data Transmission via AWS

All data collected by the system is securely transmitted to the Etheos software hosted on Amazon Web Services. It uses industry-standard security protocols, including TLS and HTTPS, to ensure data integrity and privacy.

Room Template Programming in Etheos

Traditional systems require separate programming for each room, which can be time-consuming. Etheos simplifies this by allowing users to create a single room template that can be reused for similar rooms across the project or even in different projects. This is particularly helpful during controller replacements or project replication.

Reliable Cloud Backup

One of the major concerns in properties operations is data backup. Etheos automatically stores all project data in the cloud: Users can retrieve the backup at any time through a secure cloud connection.



Flexible Room Combinations (Suite mode)

Etheos offers hotel operators the flexibility to combine various room types into a single sellable unit, based on their pre-designed guest room configurations.

This powerful functionality enables hotels to present and sell their guest rooms in diverse arrangements, effectively catering to the varied needs of their different guests.

Cost Efficiency with Etheos' Shared Network

The Etheos platform offers a shared network backbone architecture for the door lock system. This allows the door lock system to transmit its encrypted data by "tunneling" through Etheos' existing network, thereby eliminating the need for a separate, dedicated network and significantly reducing the customer's capital expenditure.

Template Builder
CITY HOTEL

Settings
Show system id
Ready to publish

1 Main data 2 Zones 3 Devices 4 Thermal Zones 5 Links 6 Scenes 7 Targets 8 Rules

New

Label

Description [No Title]

Type

Category

Radio Button

Zone ID

Add

NAME	DESCRIPTION	ITEMS	TYPE	CATEGORY	RADIO BUTTON	ZONE	ACTIONS
CORTESIA OFF		1	scene	courtesy-off	No	Q,E	configure create target edit clone delete
CORTESIA ON		1	scene	courtesy-on	No	Q,E	configure create target edit clone delete

Switch Series for All Market Segments

Three switch series tailored to different market segments:

SWING - A polycarbonate entry-level range featuring tactile feedback and backlit controls.

VITRUM - A sleek glass collection offering a premium look and extensive customization, ideal for mid-range to luxury properties.

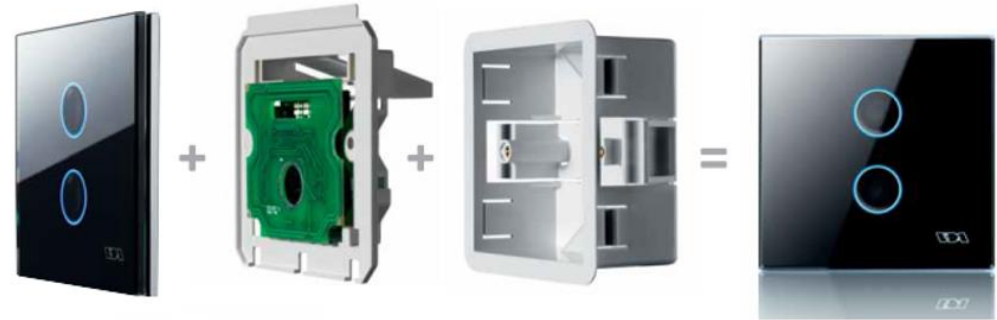
AXIA - A high-end metal series with a solid feel and refined finishes, designed for upscale and luxury environments.

Modular Switch Architecture

SWING, VITRUM, and AXIA switches feature a modular design, with detachable faceplates that allow for easy aesthetic updates or design changes, without altering the underlying electronic components.

RGB Backlight Customization in Switches

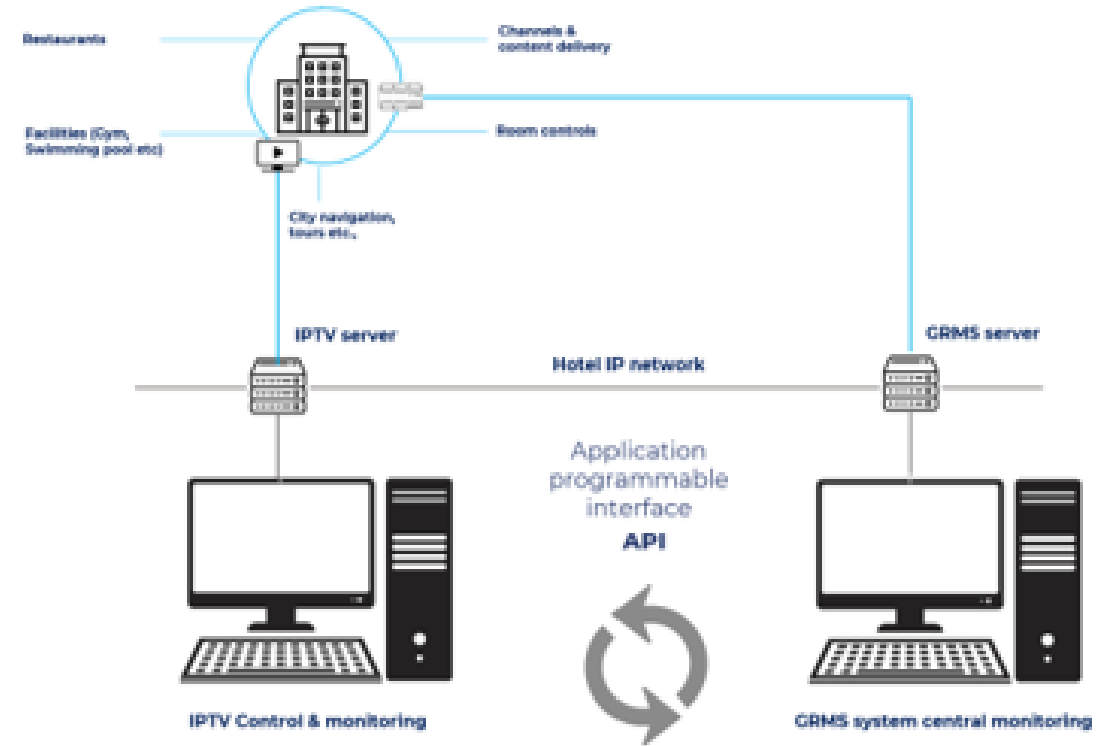
Each button in the system features RGB lighting technology. Based on customer preferences, the color of the button lighting can be customized to reflect the uniqueness of different services.



API: Seamless In-Room connectivity

To enable smooth integration across devices and platforms, our API provides full access and control over all in-room functions, supporting centralized management and data.

Room status and activity can be displayed on TVs, mobile apps, tablets, or external dashboards through the API interface.





Advanced Touch Features in the VITRUM range

The VITRUM range includes touch panels with built-in proximity sensors and multitouch capabilities. Buttons support both short press and long press functions, allowing multiple actions per button. Thermostats feature slide wheel (rotatable touch) sensitivity for a more user-friendly experience.

Scene Rotation with a Single Button

A single button can be programmed to rotate between four different scenes. Each scene is identified by a distinct crown color, making it easy for users to recognize and interact with the desired setting.

Customizable Bedside Panels For Enhanced Guest Convenience

Intuitive, tailor-made integrated panels enhance hospitality spaces, with particular attention to bedside solutions that improve the guest experience

These innovative panels are designed to enhance guest convenience by accommodating third-party electrical socket outlets along with integrated USB chargers, allowing guests to easily charge their phones, tablets, and laptops directly from their bed.



Double connectivity option

Nucleus controllers are available in Two Versions:

IP Version:

standard Ethernet-based communication for wired environments.

Wi-Fi Version with Inbuilt Antenna:

Designed for retrofit or refurbishment projects where wired IP infrastructure is unavailable.

Includes the **option to extend the antenna** to improve wireless coverage in challenging layouts.

Eight Relays for 230V Control

Controllers and expansion modules are equipped with eight 230V relays, which enable direct control of various fixtures/devices such as:

- **Lighting fixtures**
- **Motorized curtains and blinds**
- **Motorized Skylights**
- **Underfloor heating**
- **Electric towel rails**
- **Electric fireplaces**



Collections

Discover our hardwares.

AXIA

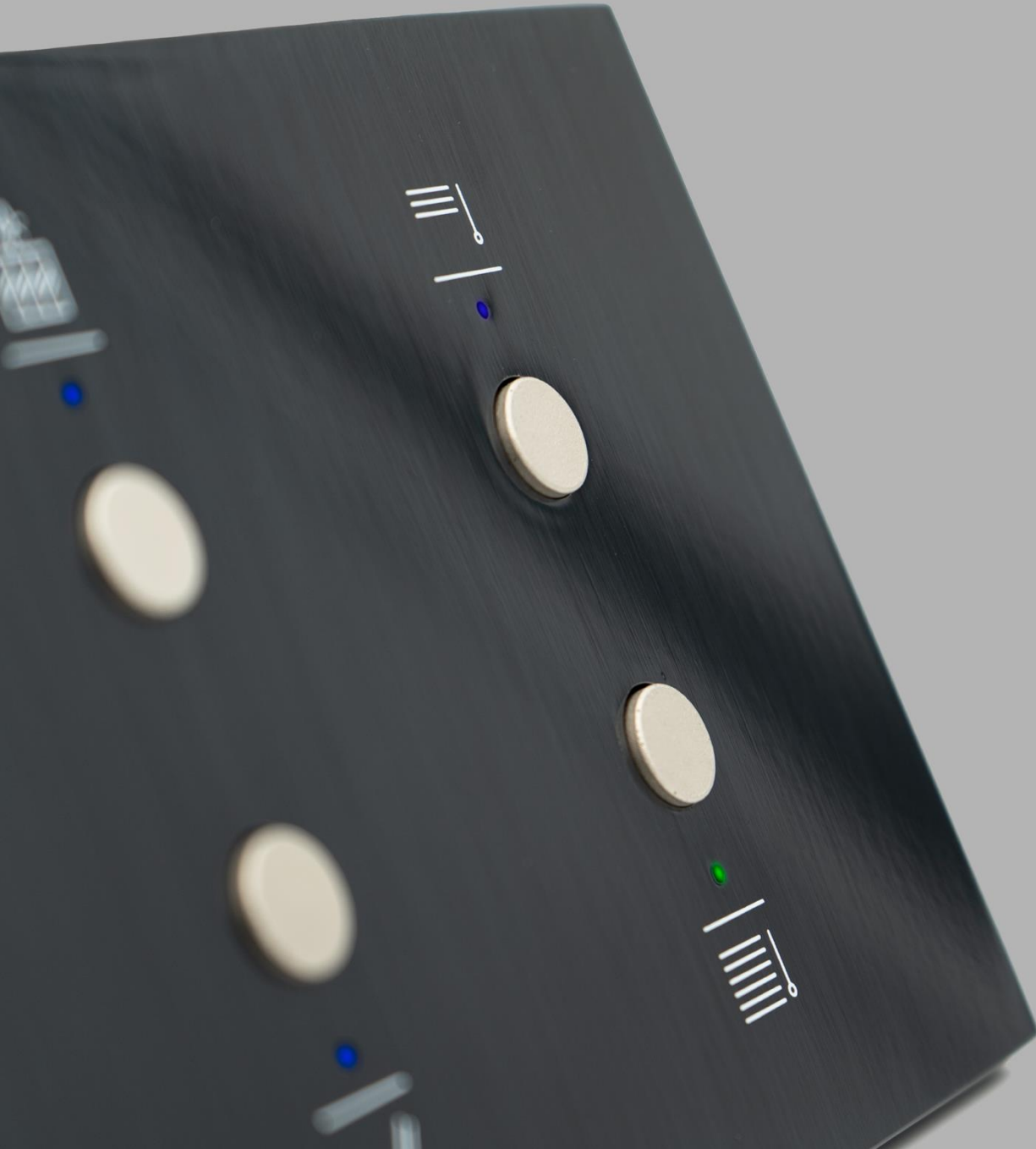
THE METAL SWITCH COLLECTION

The line of metal smart switches for controlling hotel room functions, where **aesthetics** and **technology** come together to create a true design object.

Axia is not just an interface: it is a **customizable** furnishing element, designed to dialogue with the interior design of luxury hotels, boutique hotels, and exclusive residences

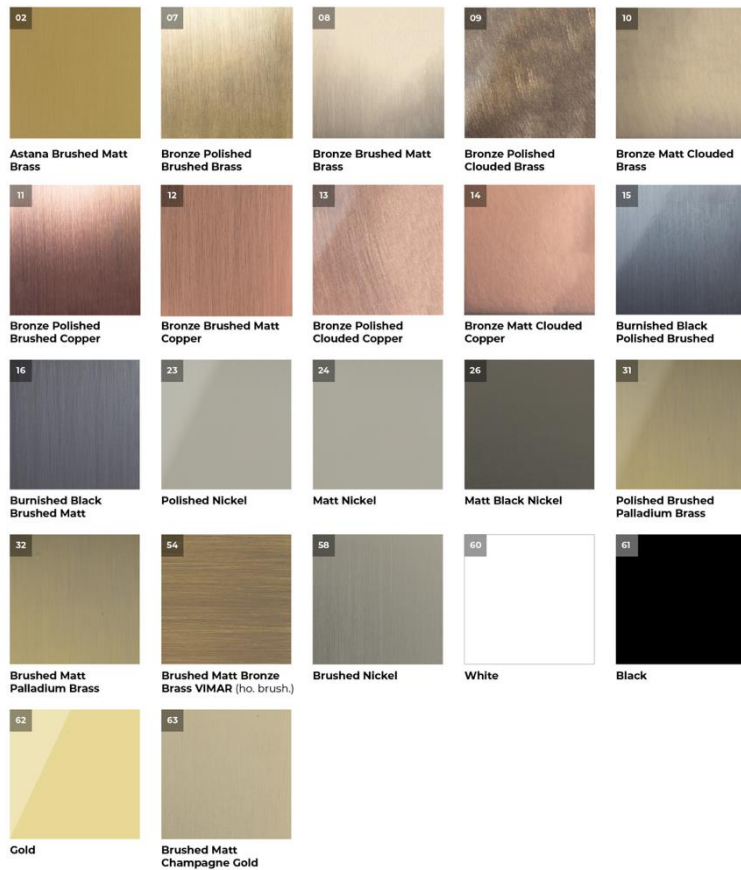
Axia is the metal plate collection that celebrates the excellence of **Made in Italy** design and the **Venetian artisanal tradition**. Each plate is crafted from a single block of aluminum, shaped and hand-finished in every detail to create an authentic and distinctive product.

Not just a simple switch, but a design piece that tells a story of material, form, and value.



22 finishes.

Infinite possibilities.



Axia is available in **22 unique finishes**, each featuring its own exclusive textures, tones, and nuances. *Glossy, matte, brushed, or clouded*, **these surfaces transform every switch into a design element capable of blending harmoniously into any high-end environment.**

The buttons seamlessly match each finish: for 20 of the 22 variants, they are crafted in fine brass, while in the white and black versions they take on the corresponding color of the plate, creating a perfectly coordinated and sophisticated effect.

All configurations

With square buttons.



Card Reader



Card Reader | 1 button



Card Holder



Card Holder | 1 button



Card Holder | 2 buttons



Thermostat



Switch | 1 button



Switch | 2 buttons



Switch | 3 buttons



Switch | 4 buttons



Switch | 6 buttons



Switch | 8 buttons



Housings | 503



Housings | 504

All configurations

With round buttons.



Card Reader



Card Reader | 1 button



Card Holder



Card Holder | 1 button



Card Holder | 2 buttons



Thermostat



Switch | 1 button



Switch | 2 buttons



Switch | 3 buttons



Switch | 4 buttons



Switch | 6 buttons



Switch | 8 buttons



Housings | 503



Housings | 504

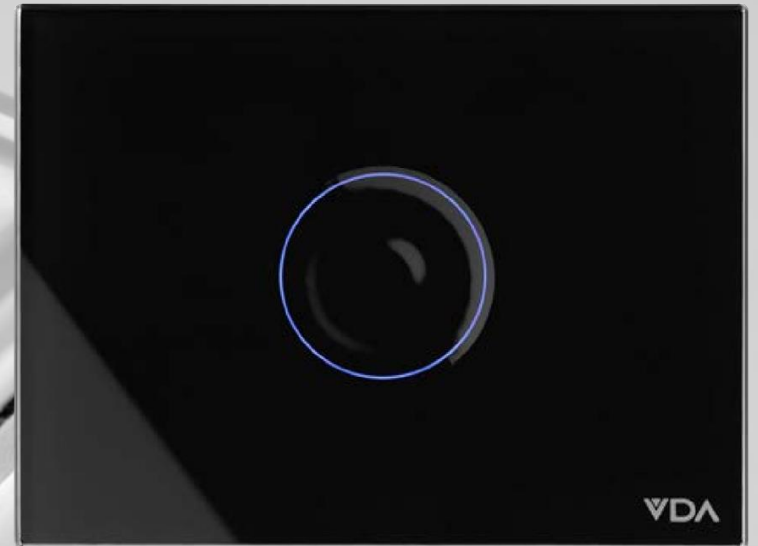
VITRUM

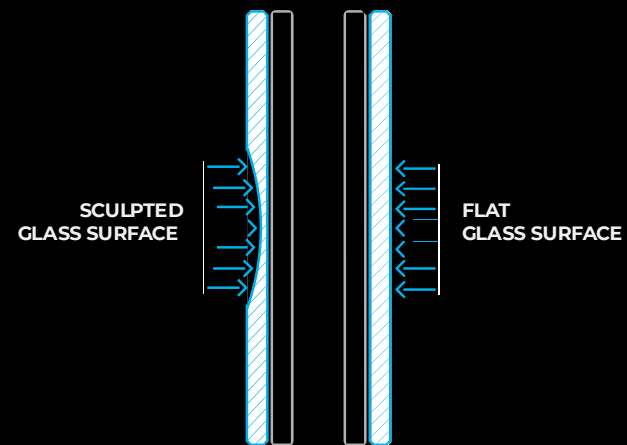
THE GLASS SWITCH COLLECTION

Vitrum is one of the smart device collections compatible with the **Micromaster** and **Etheos** system.

It's built according to the specification required from both the European and British standards, permitting the guest to interact with an **automated system** through a functional and ergonomic object, as well as aesthetically pleasing.

Following the original collection, Vitrum has evolved in many directions, offering the possibility for **high levels of customisation**.





CUSTOMISED LOGO



STANDARD COLOURS



COLOURS PALETTE



All configurations

British Standard.



Card Reader



Card Holder



Smart Switch | 1 button



Smart Switch | 2 buttons



RFID 13.56 mhz Reader + Room Number



Smart Switch | 4 buttons



Chromoterapy Device



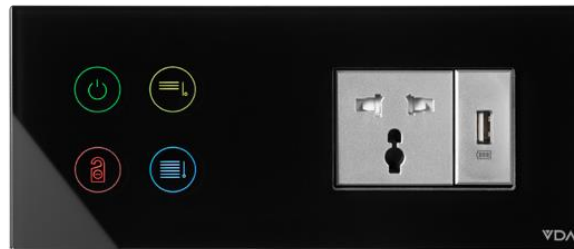
Thermostat



Thermostat with PIR



Thermostat + Smart Switch | 4 buttons (combined)



Smart Switch + Sockets | 4 buttons (combined)



Housing | 2 modules plate

All configurations

Italian Standard.



Card Reader



Card Holder



Smart Switch | 1 button



Smart Switch | 2 buttons



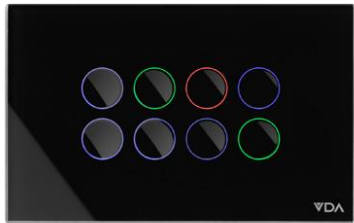
Smart Switch | 3 buttons



Smart Switch | 4 buttons



Smart Switch | 6 buttons



Smart Switch | 8 buttons



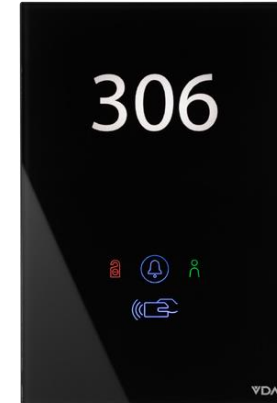
Chromotherapy Device



Thermostat



Thermostat + Smart Switch | 6 buttons (combined)



RFID 13.56 mhz Reader
+ Room Number



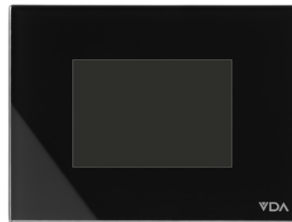
RFID e Num. Cam. IP55
(Placca & Elet)



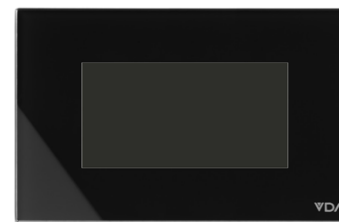
Smart Switch + Thermostat | 6 buttons (combined)



Smart Switch | 6+6 buttons



Housing | 3 modules plate



Housing | 4 modules plate

All configurations

US Standard.



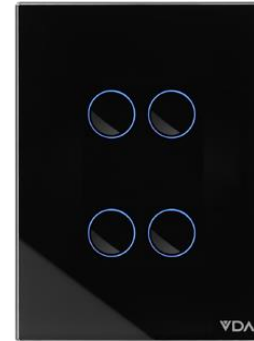
Smart Switch | 1 button



Smart Switch | 2 buttons



Smart Switch | 3 buttons



Smart Switch | 4 buttons



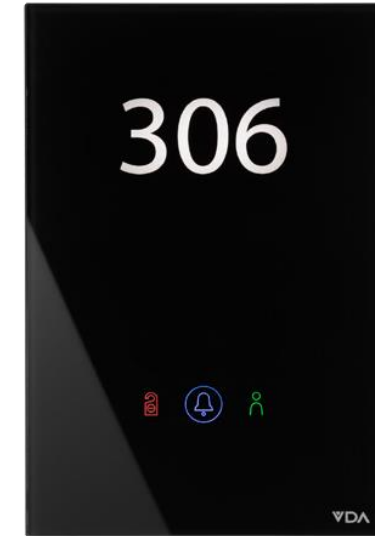
Smart Switch | 6 buttons



Chromotherapy Device



Thermostat



RFID 13.56 mhz Reader +
Room Number

SWING

THE MECHANICAL SWITCH COLLECTION

Swing is the first series of **rocker** that completes and expands the catalog of smart devices designed for the Hotel room.

The new series is available in black color, and offers the possibility of **customizing the icons** with the proposals available in the catalog.

The icons feature extremely clear and legible laser machining, which are backlit in RGBW, and can be associated with specific colors depending on the functionality or mode chosen (e.g., for 'Night Light', 'Do Not Disturb' or 'Make-up Room' modes).

Easy installation, high customization, and **low cost** make Swing the ideal collection for the middle-scale segment Hotels.



The list of devices in the Swing collection – combined by obtaining dual plates – consists of:

Outdoor reader

Out-of-door RFID key reader, which can also be configured as a simple room status indicator for Hotels that already have access control installed.

Outdoor Backlight

Decorative element that can be associated with the access reader with the function of backlighting the room number, the area of the facility, or simply the Hotel logo.

Thermostat

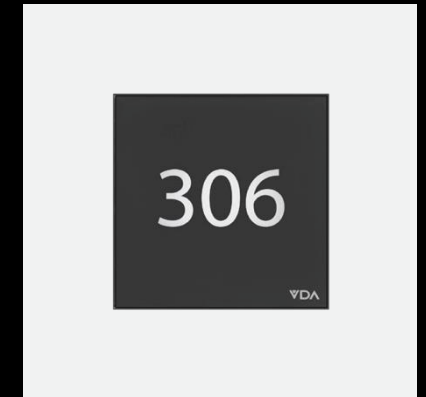
The Swing thermostat is the central element of the room and integrates with the occupancy sensor, preventing energy wastage when the guest leaves the room and forgets an RFID key in the internal card holder. The thermostat interface reports essential controls and ensures optimal guest usage.

Smart Switch

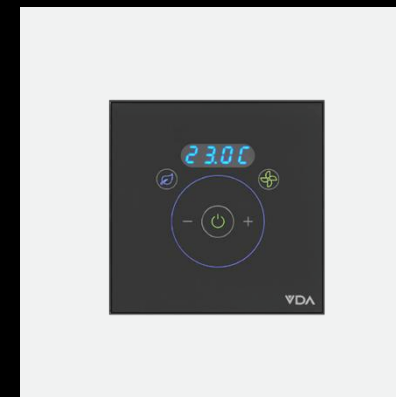
Configurable smart switch from one to six buttons for managing lights, curtains, 'Privacy' mode, 'Make-up Room' mode, etc.



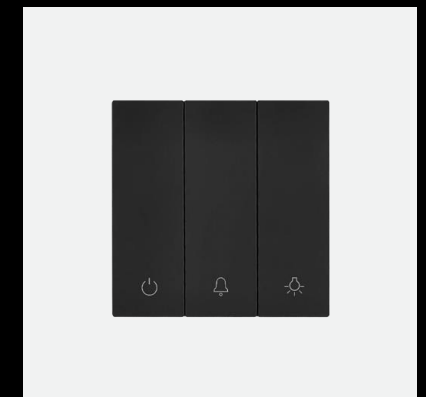
OUTDOOR READER



OUTDOOR BACKLIGHT



THERMOSTAT

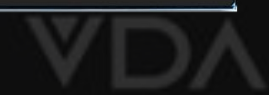
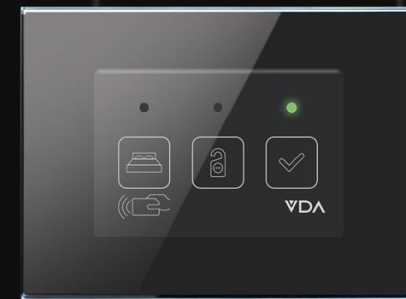


SMART SWITCH

CLASSIC

THE MODULAR SOLUTION

Our traditional Classic collection is compatible with most three-module Italian modular standards, alongside our Vitrum collection.



VDA TELKONET HQ

VDA Group S.p.A.
Viale Lino Zanussi n.3,,33170 Pordenone
(PN) – Italy
T +39 0434 516111

VDA TELKONET IRELAND

VDA UK Ltd
Stonewell House, Cloughanover,
Headford County Galway, H91 AT2Y,
Ireland
T +353 (0)93 36691

ADRIA ELECTRONIC d.o.o.

Šetalište Andrije Kačića Miošića 13
51000 Rijeka, Republika Hrvatska
T +385 51 423 435

VDA TELKONET UK

VDA UK Ltd
Unit 5, Orbital 25 Business Park,
Dwight Road, Watford, WD18 9DA –
United Kingdom
T +44 (0)1923 210678

VDA TELKONET APAC

VDA Asia Pacific LTD
Office No. 305, 3rd Fl., FICO Place Bldg. 18/8
Sukhumvit 21, Klongtoey Nua, Wattana,
Bangkok, 10110 – Thailand
T +66 (0) 2 260 6215

VDA TELKONET MEIA

VDA Middle East Fz Llc
Design House, Plot No.78-0, AL Sufouh
First, (off Sheikh Zayed Road), P O Box
37830 Unit No. B203-204
Dubai, United Arab Emirates
T +971 4 3914416

VDA TELKONET AMERICAS

Telkonet Inc.
1501 Paramount Drive, Suite E,
Waukesha, WI 53186
T +414 302-2299