Energy Saving and Comfort

SECURITY **TECHNOLOGY** CONFIDENCE **EXPERIENCE** QUALITY **SERVICE**

Energy Saving and Comfort

Savings for the hotel
Comfort for the guest
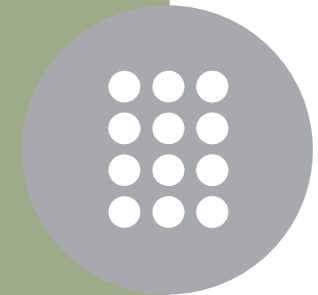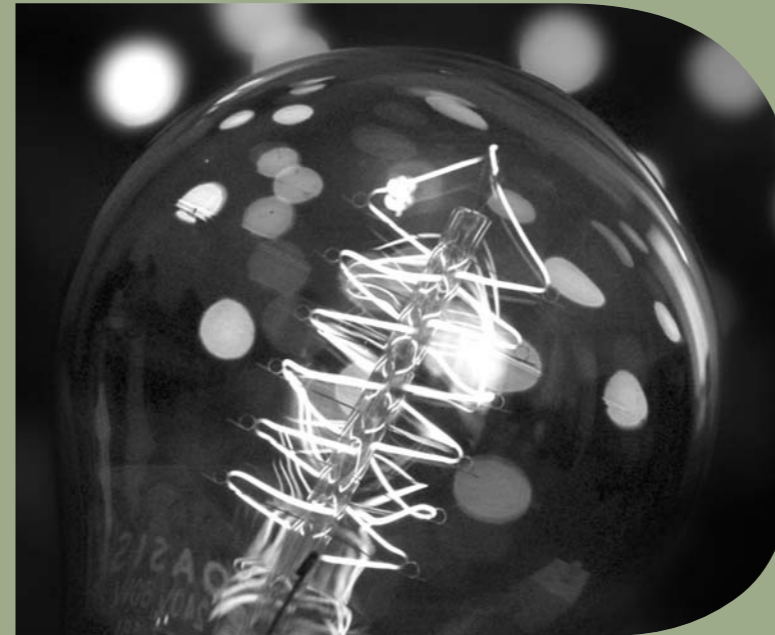
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OMNItec

Think Green

Energy Saving
and Comfort

think green

think forward
The quality that ensures your customer satisfaction

OMNITEC SYSTEMS has accumulated an experience of more than 25 years developing, manufacturing and commercialising Electronic Locks, Safes and Minibars. Today, **OMNITEC** is one of the most **recognised brands in the HOSPITALITY sector**, with a guarantee of quality and service on the 5 continents.

A highly specialised team in all areas and a totally market-oriented focus have made it possible for **OMNITEC SYSTEMS** to develop solutions for security and comfort. By connecting this team with the logistics centres in Europe, America and Asia, we are able to be present in more than 10,000 hotels around the world, including the most prestigious international hotel chains.

Evolution in quality and specialisation do not occur by chance. Recent investments in R+D, backed up by our knowledge of the market, have led to **OMNITEC SYSTEMS** being at the forefront of the sector today.

The range of devices to save energy and improve comfort is the result of the specialisation and orientation of **OMNITEC** towards the hospitality sector and industrial catering customers. Due to its history, **OMNITEC** is synonymous with quality, reliability, safety and service in over 50 countries.
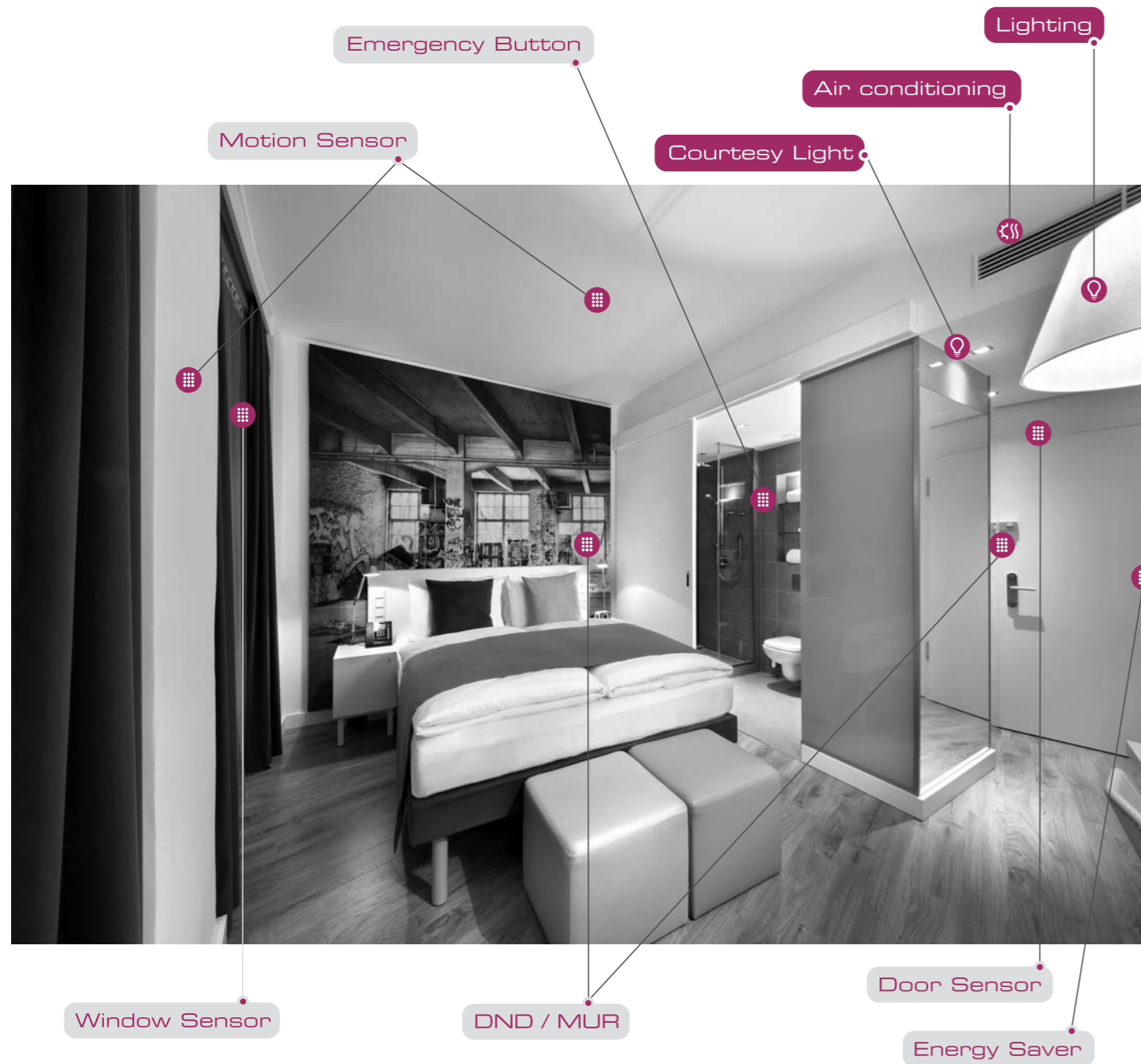
technologies
to minimise costs

One of the priorities of **OMNITEC** is its commitment to the environment and contribution to **energy savings in the hospitality sector**, improving the comfort of guests and users in the facilities and minimising supply costs.

The **OMNITEC** range of economisers, sensors and comfort devices mean you can carefully manage the equipment in the different rooms to optimise energy savings and comfort depending on occupancy; achieving **savings of up to 60% in electricity use**.

ECO

Optimised installation model for **energy saving** and **guest comfort**.

Emergency Button

Motion Sensor

Lighting

Air conditioning

Courtesy Light

Window Sensor

DND / MUR

Door Sensor

Energy Saver

energy saver SIMPLE | MIFARE

The **OMNITEC ECO** energy saving range is a series of independent devices that can save you up to **30% in electricity consumption** in the rooms where they are installed.

Insert Card For Power

Insert Card For Power

Insert Card For Power

The **ECO range** consists of 2 technically different models:

- **Simple:** Activated with any card inserted in the accommodation
- **MiFare:** Operates exclusively with MiFare cards, without reading authorisation

features

- Recessed model
- 1 output relay
- Courtesy light: 15-30 seconds
- Charge current: 16A
- LED indicator
- Available in different colours

energy saver SMART

High-performance Smart energy saver in the **ECO·MAX** series. It works in independent mode with a **saving capacity of up to 60% of the electricity consumption** in the buildings where it is installed.

The Smart model is distinguished by activating the electrical installation only when a specific **MiFare card** linked to the installation is inserted. . Its two relays operate once the device has read and recognised the authorisation given to the guest or worker.

advantages

- **Energy Saving:** The electricity is turned off when the room is vacated; thus preventing the air conditioning, lighting and other electrical devices from remaining on
- **Comfort:** Timed courtesy light and the possibility of access control to the minibar, telephone and water, for example
- **Multi-application:** Uses the same support as the room opening, reading an authorised card
- **Integration:** Working with automation systems, energy management systems and lighting controls

features

- Recessed and overlaid models
- 2 output relays
- Distinguishes between guest and employee
- Courtesy light: 10-30 seconds
- Charge current: 10A
- LED indicator
- Available in different colours

energy saver WIRELESS

Wireless energy savers, in their different formats, **work in conjunction with wireless, door and window motion sensors**. The wireless models apply in those facilities accessed with credentials other than a card, such as smartphone, smartwatch, all-inclusive wristbands and key rings.

Wireless economisers are available in wall and DIN rail versions:

- The wall model also allows the use of MiFare cards, in addition to all identification supports other than cards
- The DIN rail device is integrated into the lightbox, simplifying its installation and without interfering with the aesthetics of the room

In addition to the energy savings, comfort, multi-application and integration offered by the Smart model, Wireless energy savers provide the added benefit of connectivity.

Developed for hotels where smartphones, smartwatches, bracelets and key rings, for example, are used as a means of access to the room. In these facilities, the motion sensor detects if there is anyone in the room and, wirelessly, controls the energy saver that turns, for example, the lighting and air conditioning on and off. The maximum level of efficiency is reached if there is also a door or window sensor to differentiate between the use of air conditioning and lighting, depending on whether they are open or closed.

features

- Recessed and overlaid or DIN rail models
- 2 output relays
- Coverage of 10m indoor and 100m outdoor
- IEEE802.15.4 wireless communication with sensors
- Courtesy light: 10-30 seconds
- Charge current: 10A
- LED indicator

The **ECO·SENS** logo

The **ECO·SENS** range consists of different types and models of sensors for optimising the electrical consumption of the rooms, achieving **savings of up to 60% in rooms equipped** with **ECO·SENS** sensors.

MOTION sensors

Motion sensors determine whether the room is occupied, or not, and communicates this information wirelessly to the wireless economiser, which manages the output relays according to the information received.

OVERHEAD SURFACE SENSOR

- Overhead installation
- Possibility of several sensors per room
- 10m coverage to the Wireless economiser
- IEEE802.15.4 wireless communication
- Dimensions 111mm Ø x 40mm

- Power supply with 3 LR3 1.5V (AAA) batteries
- 3-years expected battery life
- Assembly height of 2.5-4 m
- Coverage 3m Ø installed at 3m height
- LED indicator

OVERHEAD RECESSED SENSOR

- Overhead, built-in installation
- Possibility of several sensors per room
- 10m coverage to the Wireless economiser
- IEEE802.15.4 wireless communication
- Dimensions 85mm Ø x 37mm
- Power supply with 1 CR123A 3V battery

- 5-years expected battery life
- Assembly height up to 12m
- Coverage 6.9m x 5.8m installed at 2.5m height
- LED indicator
- Incorporates temperature and humidity sensor

WALL SENSOR

- Wall installation
- Possibility of several sensors per room
- 10m coverage to the Wireless economiser
- IEEE802.15.4 wireless communication
- Dimensions: Recessed 80 x 80 x 17mm, overlaid 80 x 80 x 35mm

- Power supply with 1 CR123A 3V battery
- 3-years expected battery life
- Coverage: horizontal angle 95°, vertical angle 20°, maximum distance 5m
- LED indicator
- Incorporates humidity sensor

DOOR-WINDOW sensors

The door and window sensors inform the economiser if the windows in the room and the access door are open or closed. Depending on the situation of the doors and windows, the economiser manages the electrical devices of the room to **minimise energy consumption**.

Window Mode: Instructs the economiser to stop the configured relay when the window remains open for more than a certain period of time. It is usually programmed to act on the relay that manages the air conditioning.

Door mode: Manages the configured relay of the economiser when the door is opened and no motion is detected in the room; prevents the configured relay from turning off when the room is occupied and the motion sensor does not detect anyone.

OVERLAID SENSOR

Simple and quick installation on doors or windows and their frames; operative in a few minutes.

- Magnetic detector
- Possibility of several sensors per room
- 10m coverage to the Wireless economiser
- IEEE802.15.4 wireless communication

- Dimensions 44 x 27mm + 18 x 13mm
- Power supply with 3V CR2032 lithium battery
- 2-years expected battery life
- LED indicator

BUILT-IN SENSOR

Designed for installing inside non-metallic doors and windows; this sensor goes completely unnoticed.

- Magnetic detector
- Possibility of several sensors per room
- 10m coverage to the Wireless economiser
- IEEE802.15.4 wireless communication
- Power supply with alkaline battery 1.5V LR 03

- Dimensions sensor 20mm Ø x 55.5mm and magnet 20mm Ø x 1mm
- 4-years expected battery life
- LED indicator

EMERGENCY wireless push button

Push button to request assistance from hotel staff in an emergency. These systems were traditionally designed for bathrooms in the room, but are increasingly common in different parts of rooms and adapted for disabled people.

SOS

The wireless emergency button is designed for installations that have a complete **ECO·NET** network managed from reception with specific software.

When the alert is triggered, the button transmits the message to the wireless energy saver which, in turn, transmits it to the coordinator through the network of wireless devices, which sends it to the software, usually managed at reception. Different warning systems ensure that hotel staff receive the warning to implement their action protocols.

Overlaid device, simple installation attached or screwed.

features

- Possibility of several push buttons per room
- 10m coverage to the Wireless economiser
- IEEE802.15.4 wireless communication
- Dimensions 100 x 100 x 25mm

- Power supply with lithium battery 3V CR2450 (not replaceable)
- 10-years expected battery life
- Temperature range: -10° to 50°C

Emergency button ➤ Wireless Economiser ➤ Coordinator ➤ Software ➤ Alerts

ECO·NET

ECO•NET COORDINATOR

The **ECO·NET** coordinator acts as a receiver of communications on each floor of the hotel and enables communication between the energy saver and the reception PC.

Hotel Control U.

Repeater

The installation of a network with coordinators extends the functions of the wireless energy savers to find out the status of the rooms from the reception PC. The energy savers are connected in a mesh network to transmit the information to the coordinator, which manages a maximum of 50 energy savers on the same floor.

For points in the mesh network where the distance between energy savers is over 10m, a signal repeater is installed to prevent breaks in the transmission of information to the coordinator.

energy management SOFTWARE

CONNECTED
IP COORDINATOR

FRONT DESK PC
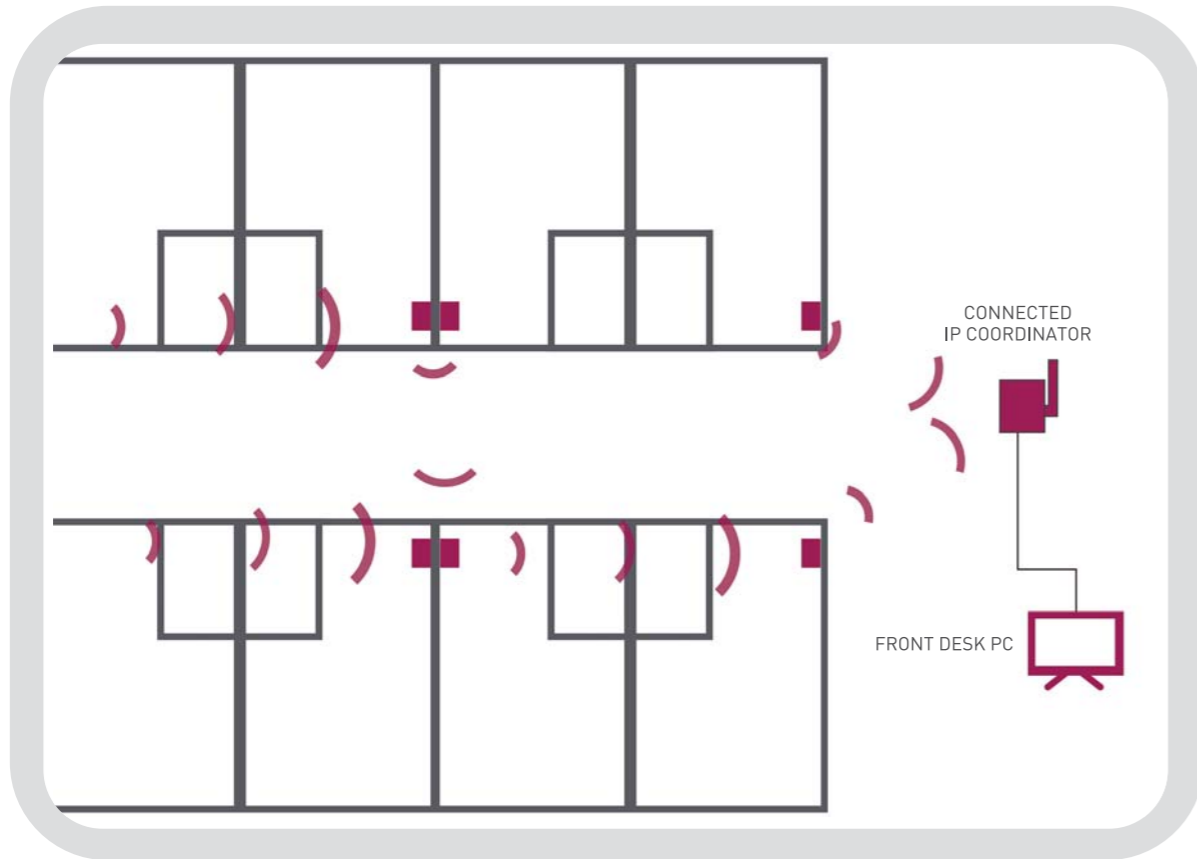
One of the fundamental components in the installation of an **ECO·NET wireless network** is the energy management software, whose main features are:

- Modular system with possibility of installing in the cloud and local server
- Double database system, REDIS and MySQL, to ensure quick communication and persistence in the data
- RabbitMQ message queuing system software, used by popular messaging systems such as Twitter or Facebook
- Secure communication, occurring both locally and externally. Security certificates and secure ports are used for access from the outside
- System optimised to be used with browsers such as Chrome and Firefox
- Development under free software, Linux

ECO·NET

The combination of wireless devices and all their advantages, with a network of coordinators and energy management software provides the hotel with comprehensive and powerful centralised control on the reception PC.

Main advantages and their most notable features:

Remote monitoring of room conditions:

- Motion control: Room free or occupied by guests or employees
- Management of emergency alerts: Alerts received from each room on the screen through messages emerging and in parallel by email
- Rooms ready to be used: Shows the rooms ready to be occupied by guests
- Errors: Rooms with a pending repair error are shown in red
- Door open alarm: A warning is received if the door is open

Remote control of the room:

- Turn off lights or air conditioning individually, by zones or by floors
- Set maximum and minimum comfort temperature for summer and winter
- Set maximum and minimum temperature regardless of that indicated on the room thermostat
- Extend the expiry date of the card

Remote maintenance:

- Sensor battery status report
- Error communication report
- Room breakdown warnings via fault cards

Customised reports:

- Consumption per room
- List of rooms ready to be used
- Time spent by the employee in the room
- Relay activation time
- List of rooms with low batteries or with communication error

SMART DND system

OMNITEC offers the hotel a modern and elegant DND system, designed to suit any style of decoration. Intuitive use; provides important extra comfort for the guest.

Bell

The **smart DND system** is widely used in hotels, motels and apartments that offer the guest the option of indicating their preferences outside the room.

The customer selects an option on the panel located inside the room, e.g. "do not disturb" or "clean room", and this is immediately displayed on the panel in the hallway. When "do not disturb" is indicated, in addition to being displayed on the outside panel, the doorbell is turned off.

The exterior panel includes a bell button, in addition to status indicators and **room number**.

Elegant, stylish design, with metallic frame and **backlit panel to guarantee visibility** in the dark.

Simple to install, it fits the standard flush-mounted boxes.

Voltage: AC100 ~240V 50/60Hz | Consumption: < 5W | Panel dimensions: 86 x 86mm | Bell dimensions: 155 x 105 x 48mm

DND GLASS system

The DND Glass system is characterised by its modern design with an exterior panel in retro glass illuminated by LED and a touch button. Its elegant finish gives the whole hall a luxurious and modern style without neglecting the comfort of the guest.

The **DND Glass system** is widely used in hotels that provide guests with the added **comfort** of being able to indicate their status on the outside of the room and prevent inappropriate interruptions.

The guest has **three options** on the interior panel: do not disturb, clean room and please wait.

Once one of these states is turned on, it is indicated immediately on the panel in the corridor. When "do not disturb" is indicated, the doorbell is turned off.

If the bell is rung and the guest cannot immediately open, pressing "wait please" will make this message appear on the outside panel for 2 minutes and the doorbell will be turned off.

In addition to the 3 status indicators and room number, the exterior panel includes a bell button.

DND Glass adapts to automated systems and message management systems to facilitate the management of the room as a whole.

Interior **panel with metal frame** and backlit panel to ensure visibility in the dark.

Simple to install, it fits the standard flush-mounted boxes.

Bell

Voltage: AC100 ~240V 50/60Hz | Consumption: < 5W | External panel dimensions: 160 x 90mm
Internal panel dimensions: 86 x 86mm | Bell dimensions: 155 x 105 x 48mm

OMNITEC

**Energy Saving
and Comfort**

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Iberostar Santa Eulalia 4* Spain

Barceló Torre de Madrid 4* Spain

Radisson Blu Podil 4* Ukraine

Fergus Style Palmanova 4* Spain

Crown Paradise Vallarta 5* Mexico

Hard Rock Kantenah 5* Mexico

Finest Isla Mujeres 5* Spain

Hard Rock Hotel Ibiza 5* Spain

Hilton Tanger 4* Morocco

The Grange Hotel 5* United Kingdom

Hôtel Faidherbe 3* France

Dream Hotel 4* Belgium

Hotel Dina Morgabine 3* Reunion

Hotel Africa Jade 4* Tunisia

Heston Hide Hotel 4* United Kingdom

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