

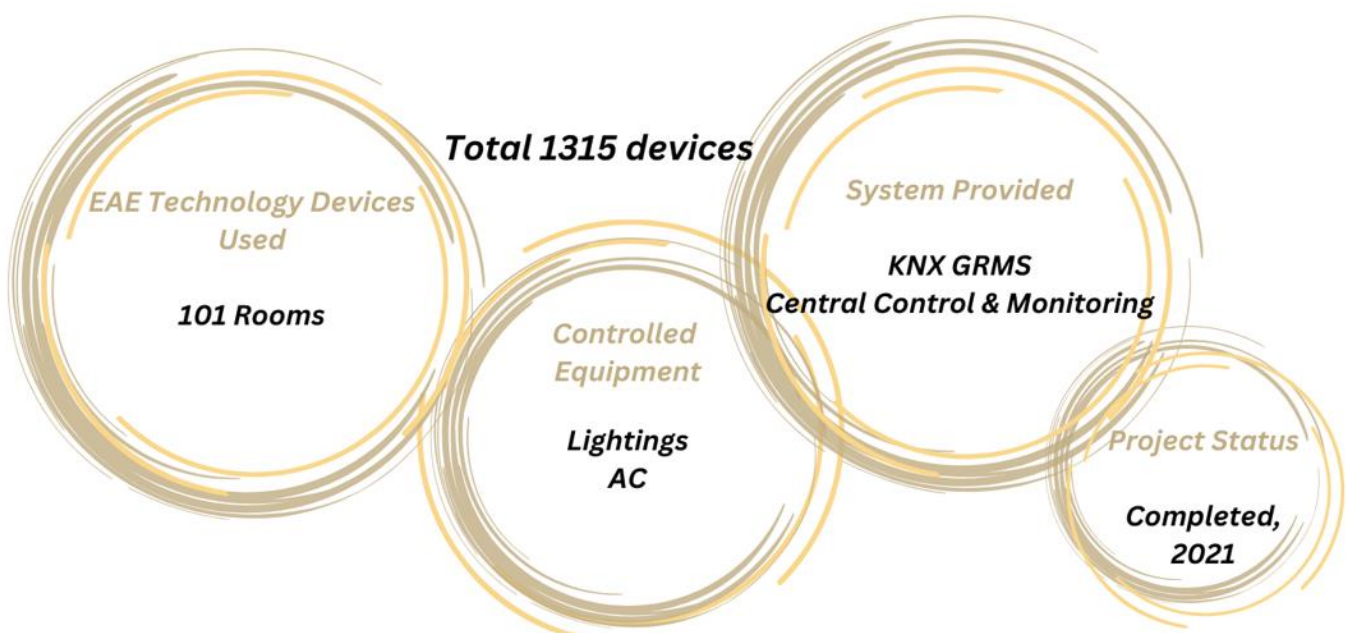


HAMPTON by HILTON HOTEL – Sirkeci, ISTANBUL

Case Study



https://www.hilton.com/en/hotels/istishx-hampton-istanbul-sirkeci/?SEO_id=GMB-EMEA-HX-ISTISHX



Customer Review

EAE Technology's Guest Room Management system has enhanced Hilton Hotel's operations by reducing the need for manual tasks. The integration with our building management allows comprehensive monitoring of the entire project.

Mona and Oria products, sensors and panel devices, are actively working in the project. The occupancy-based controls automate climate management, improving energy efficiency and operational effectiveness.

We are pleased with the products and overall system performance, as they optimize workflow and ensure precise environmental control, aligning with our goals for energy conservation and reliability.

Tümay Mollaoglu

Hotel's Purchasing Manager

Project Scope

The KNX Guest Room Management System for the project was developed by EAE Technology's expert team to enhance the hotel's energy efficiency, security, and comfort. The project includes the following components:

- *Lighting Systems:* Automation and control focused on energy efficiency for lighting. Lighting is managed through on/off controls.
- *HVAC Systems:* AC units are controlled by EAE Technology's KNX Thermostats and Mitsubishi AC Controller.
- *Security Systems:* Integration of room KNX System to Modbus (BMS) part with dual-layered approach which enhancing the encryption level.
- *Energy Conservation:* Use of automation applications that will provide energy savings by minimizing energy consumption. Door and Window contacts are used for unnecessary energy use.
- *Building Management System (BMS):* Monitoring and management of GRMS via a central control software.

In this context, when the project is completed, the hotel has been optimized to have the highest standards in terms of energy efficiency, comfort and security.



Used EAE Technology Devices

Field Devices	Quantity	Panel Devices	Quantity
Presence Sensor	202	Room Control Unit	101
Mona DND/MUR	101	Modbus Gateway	101
Oria Switch	404		
Oria Thermostat	101		
Mitsubishi AC Gateway			

Mona DND/MUR Unit

The hotel's logo is used on the DND/MUR panel. Mona DND/MUR unit displays the room number in all rooms of the hotel. The "Do Not Disturb" and "Clean My Room" icons on the product are controlled from inside the

room. While the touch bell button becomes passive in the "Do Not Disturb" mode, the "laundry" icon informs the hotel staff to collect the laundry according to the user's request.

Oria Switches

Oria Switch is used for on/off control of room lighting. Its sandy-textured surface resists fingerprints, ensuring a clean appearance, while the status LEDs clearly indicate the light's current state.



Oria Thermostats

AC units are managed via Oria Thermostats, which feature four additional switching buttons that can be utilized for various functions. In this project, the Oria Thermostats control both the heating and cooling units as well as the lighting fixtures through these extra buttons.

Furthermore, the thermostats' sandy-textured surface helps prevent fingerprints, maintaining a sleek look, while the status LEDs clearly indicate the current state of the lights.



Other Devices Used in Project



Room Control Unit



KNX Modbus Gateway

Security Perspective for Used EAE Technology GRMS System

In the room, EAE Technology's KNX GRMS devices are seamlessly integrated into the building's BMS system through the KNX/Modbus Gateway Module via Modbus/TCP/IP function. This sophisticated setup ensures that while the room itself is controlled via KNX, the system out of the room is Modbus.

This dual-layered approach not only enhances the encryption level but also guarantees that the security needs of guests are met with the highest standards. The intelligent design ensures that the room's comfort and control are maintained, while the overall building system operates securely and efficiently, providing peace of mind and an elevated experience for all occupants.

