TP-Link Brings Networking Renovation to White Dream Resort

❤ END-CUSTOMER GENERAL PROFILE

Name: White Dreams Resort
Industry: Hospitality
Capacity: 95 Rooms,
33 Junior Suites
Scale: 4-Star Hotel
Location: Profitis Amos,
Faliraki, Rhodes Greece

❤ Used Products

• **Jetstream Switches**

3× T2600G-28MPS(TL-SG3424P)

3× T2600G-28TS(TL-SG3424)

5× TL-SG1005P

1× T1500G-10MPS

• **Omada Access Points**

3× EAP245

1× EAP225

13× EAP225-Wall

32× EAP225-Outdoor

• **Omada Controller**

2× OC200

❤ System Integrator

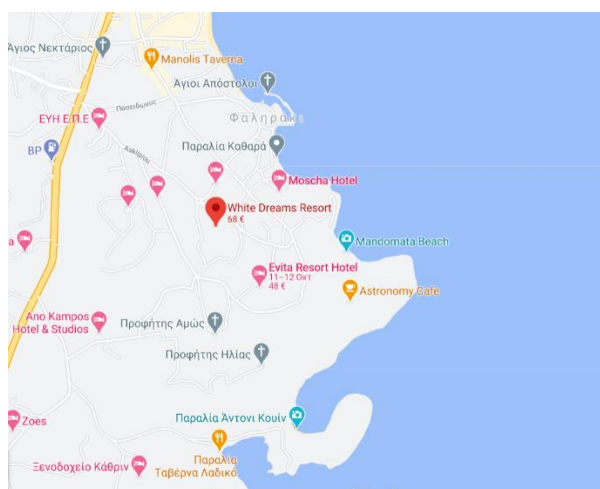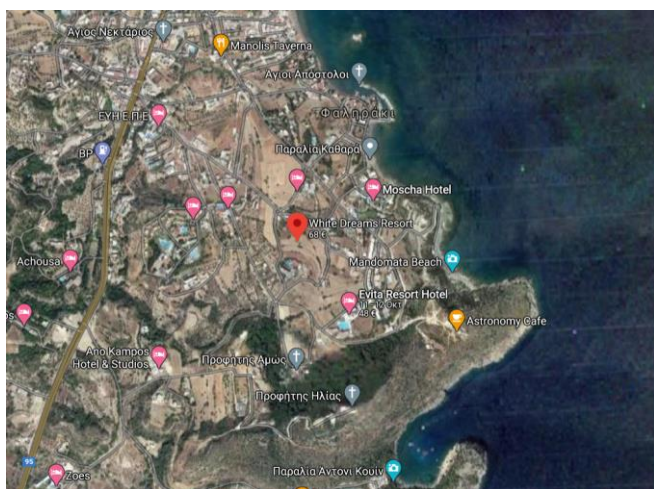**Installer:** Talk n Feel – Moustakas Telecommunications
HQ Location: 81 Iraklidon av. Ixia (close to Ialysos area) – Rhodes - Greece

❤ BACKGROUND

White Dreams Resort is situated in a quiet location near Kathara beach. It is 1.5 km from the center of Faliraki, 12 km from the historic town of Rhodes & its main harbor, and just 18km from Diagoras International Airport.

White Dreams Resort has a strong aesthetic that is both contemporary and timeless, coupled with its wooden and inspirational modern design.

The restaurant offers an extensive buffet for breakfast, lunch, and dinner, featuring Greek and International cuisine. The main bar provides a perfect setting for a drink in the afternoon and cocktails in the evening. The pool bar overlooks the swimming pool and is a unique spot for refreshing beverages throughout the day. It features gorgeous sunset views for a drink in the afternoon and cocktails in the evening.

Main Building

- 24 hour reception
- 13 junior suites pool view
- Spa
- Restaurant
- Main bar

Around the Hotel

- 77 superior rooms pool view
- 18 superior rooms swim up
- 20 junior suites swim up
- 2 Swimming pools
- Pool bar
- Mini Market

Hotel Networking needs, using TP-Link products:

- Lobby, Restaurant & Main bar Wi-Fi coverage
- 80 room areas and pools
- 80 VoIP/SIP needs (upgrade)
- 20 PoE recourses for IP-based cameras at the main building
- Mini Market Wi-Fi coverage with franchise management
- Centralized Access Point Management – via Cloud

❤ CHALLENGE

White Dreams Resort turned to Moustakas Telecommunications & TP-Link Hellas for a reliable networking solution. They needed to resolve the following challenges and fulfill the following corporate requirements for 75% of their business' needs heading into 2019:
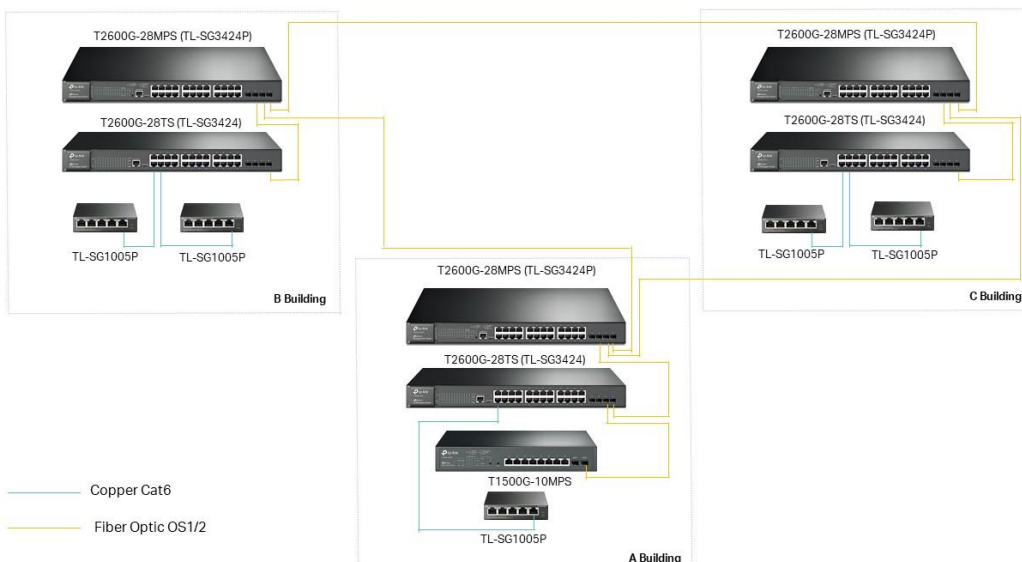
- Creating a LAN;
- Creating different VLANs (with distinct specific QoS) for:
    - Wi-Fi Corporate usage;
    - Wi-Fi Guest usage;
    - Wi-Fi On-Demand usage; and
    - Telephony usage;
- Establish how White Dreams Resort would offer wireless and wired IP Telephony.
- Determine how White Dreams Resort would manage the required networking materials, either locally and/or remotely;
- Designing three (3) Portal pages for each SSID (Corporate, Guest & On-Demand);
- Remote management of Wi-Fi at an internal Mini Market–for franchise usage; and
- Providing PoE recourses for IP-based cameras in the main building.

❤ SOLUTION

Talk n Feel – Moustakas Telecommunications and TP-Link Hellas provided a suitable networking solution that met all of the demands outlined by White Dreams Resort. TP-Link's partner implemented the project in conjunction with business-critical Pre-Sales & After-Sales support by TP-Link Hellas.
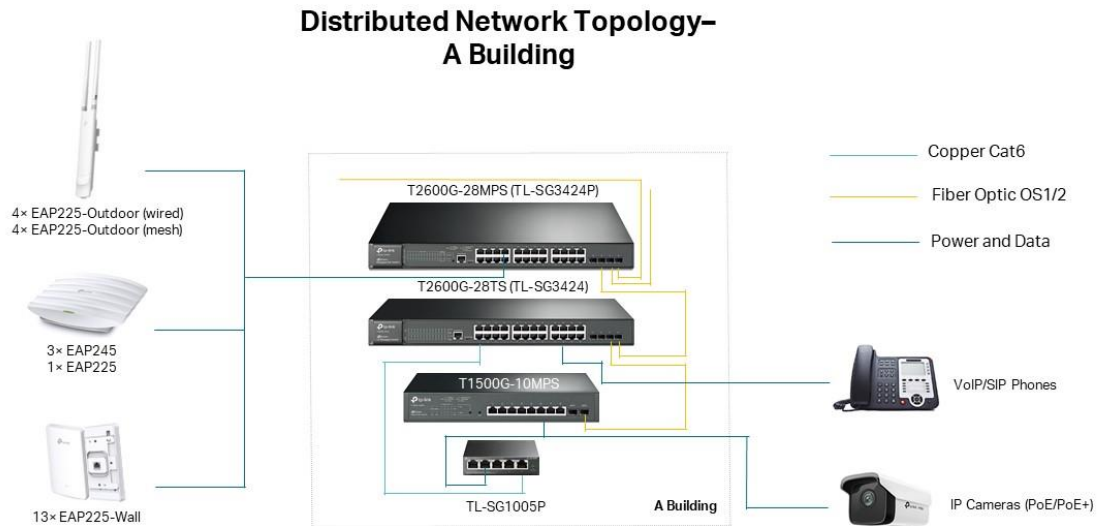
• Backbone Network

For the backbone network, the implemented solution used Fiber Optics and Copper FTP Cat6. It comprised 3 T2600G-28MPS(TL-SG3424P), 3 T2600G-28TS(TL-SG3424), 1 T1500G-10MPS, and 5 TL-SG1005P with the proper GBICs (SFP modules), per kind of Fiber Optic cable. As a topology, the network implemented the "Ring" type and per computer room while also implementing the "In a Row/Bus" connections.
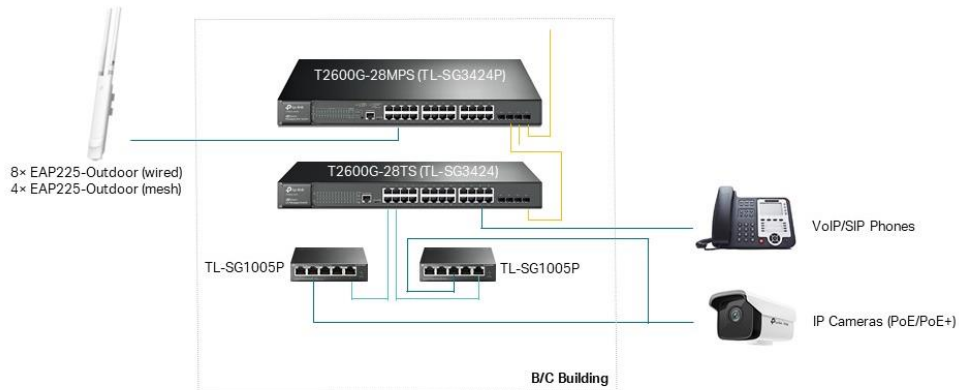
- **Distributed Network**

For the distributed network, the implemented solution was based on Copper cabling (Cat.6 – FTP) and comprised of 1 EAP225, 3 EAP245, 13 EAP225-Wall, and 32 EAP225-Outdoor.

Distributed Network Topology– A Building

4× EAP225-Outdoor (wired)
4× EAP225-Outdoor (mesh)

3× EAP245
1× EAP225

13× EAP225-Wall

Copper Cat6
Fiber Optic OS1/2
Power and Data

T2600G-28MPS (TL-SG3424P)
T2600G-28TS (TL-SG3424)
T1500G-10MPS
TL-SG1005P

A Building

VoIP/SIP Phones
IP Cameras (PoE/PoE+)

Distributed Network Topology– B & C Building (the same for each Rack)

8× EAP225-Outdoor (wired)
4× EAP225-Outdoor (mesh)

T2600G-28MPS (TL-SG3424P)
T2600G-28TS (TL-SG3424)
TL-SG1005P   TL-SG1005P

B/C Building

VoIP/SIP Phones
IP Cameras (PoE/PoE+)
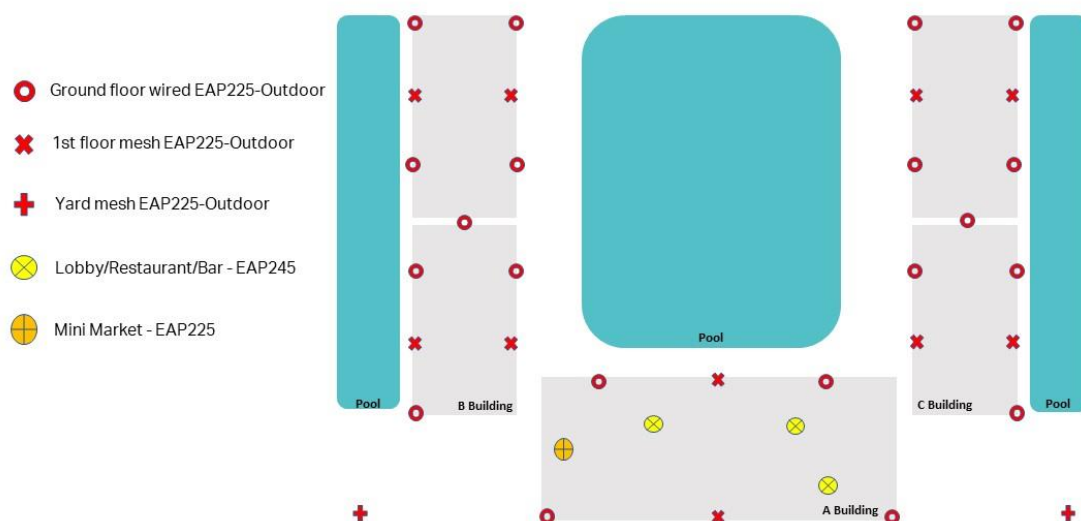
- **Wi-Fi Network Management**

For Wi-Fi network management, the implemented solution was based on TP-Link Cloud services and comprised of 2 OC200. All the related project collaborators use scaled management access via the Omada ecosystem. Moustakas-Telecommunications operates as admin, and the Receptionist uses the "voucher manager" whenever needed).
The 2nd OC200 is controlling the EAP225, which is located in the Mini Market. The admin rights here are only provided to the IT dept of the Mini Market's franchise company. For this area, the Omada Advertisement Prior to Login feature is used.
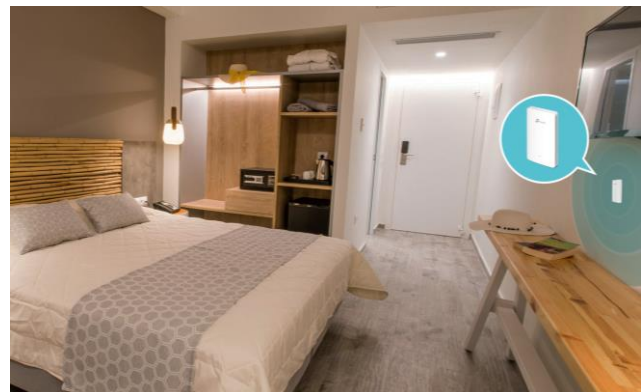
Wi-Fi Management Topology– A Building

Cloud Access

2× OC200

T2600G-28MPS (TL-SG3424P)

T2600G-28TS (TL-SG3424)

T1500G-10MPS

TL-SG1005P

A Building

Copper Cat6
Fiber Optic OS1/2
Cloud Access

General Layout Access Point Topology

- ⭕ Ground floor wired EAP225-Outdoor
- ✖ 1st floor mesh EAP225-Outdoor
- ➕ Yard mesh EAP225-Outdoor
- ⊗ Lobby/Restaurant/Bar - EAP245
- ⊕ Mini Market - EAP225

Pool

B Building

C Building

Pool

A Building

❤ BUSINESS RESULTS

The White Dreams Resort is delighted with the implemented solution. The Omada ecosystem (along with the Jetstream series of switches) has provided the reliable and robust network performance that White Dreams Resort needed. Classic IP networking demands are now taken for granted:

- Primary and Secondary Backbone systems' connectivity through Fiber Optics
- Standard Wireless Corporate Subnet
- Standard Wireless Guest Subnet
- On-Demand Wireless Guest Subnet
- IP-based Telephony Subnet
- IP-based Cameras Subnet

In 2019, we decided to upgrade most of our networking systems. We had checked and conducted research on the performance of TP-Link business solutions at other hotels. We asked for the collaboration of Kostas (Moustakas Telecommunications) and Stamatis (TP-Link Hellas). The result was fantastic. All the comments about our Wi-Fi and telephony services on websites like TripAdvisor, Trivago, and Booking have stopped, and our customers now have an excellent experience. We planned to continue our networking renovation throughout the rest of the hotel into 2020. Unfortunately, the global pandemic situation of COVID-19 didn't allow us to proceed so. We now know how to proceed, and we'll do so at the earliest convenient timeframe.

—PR Manager of White Dreams Resort (2020)

❤️ Recommended Products

TL-SG2210MP

T2600G-28SQ

TL-SG3428MP

EAP620 HD

EAP265 HD

EAP235-Wall

ER7206

OC300