



# Family Care Hospital Chooses Industry Leader TP-Link for Wireless Service Deployments

## ♥ CUSTOMER PROFILE

Customer Name: Family  
Care Hospital  
Industry: Others  
Location: Riyadh, KSA  
Year of Project: 2017

## ♥ BACKGROUND

High quality health care is a major requirement for everyone in the society. From that point and with more than 10 years of healthcare management experience, Kingdom of Saudi Arabia-based Family Care Hospital (FCH) was established to serve the local society with high standard medical services. Family Care Hospital is a private healthcare institution located in Riyadh East next to Prince Naif University and King Fahad Military College; and is a 30 minutes' drive to the national airport. The hospital is a 100 bed capacity facility and is newly built which means that all the facilities, equipment, machine and other amenities are latest

and with current high technology features.

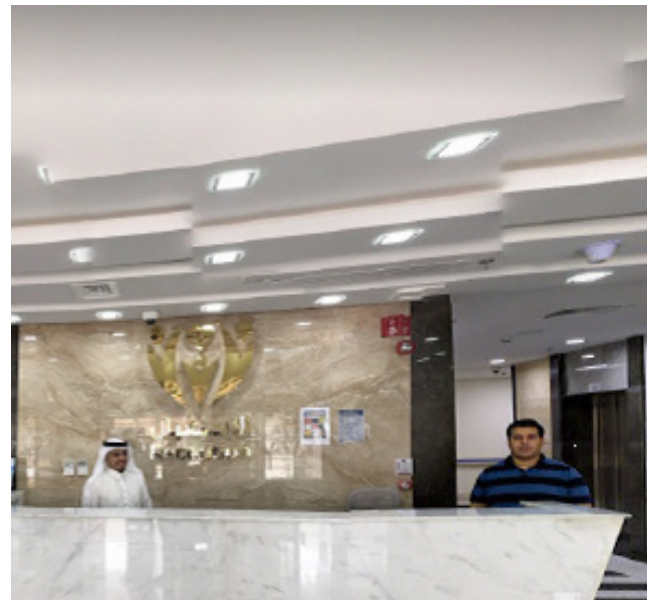
The hospital focuses upon the planning and designing, to provide a safe and friendly health facilities and services, which help to bring the peace of mind to patients. Family Care Hospital aims to provide a wide range of high quality and up-to-date medical services by utilising best equipment from different highly recognised medical equipment companies.

## ▼ CHALLENGE

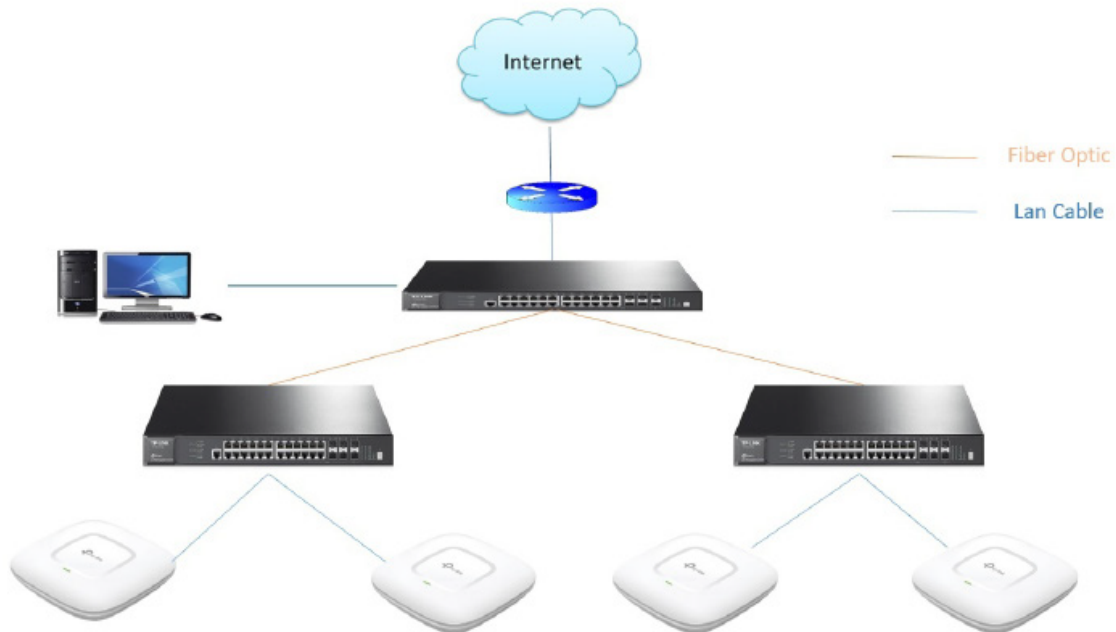
Given that more and more people want to enjoy Internet anywhere and on the go, the Family Care Hospital was looking at a comprehensive wireless solution to offer stable Wi-Fi connectivity for its employees and patients that visit the facility. The hospital was also looking to increase its working efficiency, productivity and competitiveness in this all important industry vertical.

Family Care Hospital is a modern healthcare facility which is housed in a six storey building and has two basement floors. The Family Care Hospital has 500 staff and on average 300 patients visit in hospital, so we have to cover 8 floors totally. They will do 2 floors in first step for this project, the rest project will come in the end of 2017

The Family Care Hospital was looking for a Wi-Fi solution that had centralised management and captive portal for guest and staffs authentication. After exploring the market for the most comprehensive offering and consultations with the TP-Link technical teams, the hospital decided to implement the Omada EAP245, an affordable business-class 802.11ac Wi-Fi solution an AC1750 Wireless Dual Band Gigabit Ceiling Mount Access Point.



Because the Family Care Hospital wanted to cover all basement floor, which includes office corridor and conference room, the network design and topology had to make sure the Wi-Fi coverage signal was excellent. With the Omada EAP245, the Family Care Hospital knew it will be able to offer superior Wi-Fi Speeds with 3x3 11ac and MIMO



technology. In addition, the latest generation of 802.11ac Wi-Fi, combined with advanced 3x3 MIMO technology, ensures superior Wi-Fi speeds and coverage over 2.4 GHz and 5 GHz wireless bands. The EAP245 reaches Wi-Fi speeds of up to 1.75 Gbps, with 1300 Mbps on the 5 GHz band and 450 Mbps on the 2.4 GHz band.

Based on the Family Care Hospital request, TP-Link technical teams checked the layout and offered a heat map for them. In this heat map, the technicians were able to calculate all coverage and interference issues to help the hospital to the best solution for employees and patients that come to the facility.

## ♥ SOLUTION

According to heat map, TP-Link implemented 43 units of the Omada EAP245 for the first two floors, because it is AC1750 Dual Band Access Point, it is easy to do centralised management and captive portal for guest authentication. The EAP controller software on the EAP245 makes it easy for centralised management, managing and monitoring hundreds of EAPs with ease, all from a single location, using the TP-Link Omada Controller software's intuitive management interface. The software allows IT administrators to control and map out the entire network from any connected PC. There's no added cost,

and no need for special training. Business Wi-Fi management has never been so efficient and cost-effective with this software offering.

The Family Care Hospital needed more capacity for each access point, so the TP-Link technical team recommend EAP245 as the solution can support around 80 clients and it is highly cost effective. In addition, the flexible deployment, allows the EAP's low-profile design and easy-mount chassis to easily install on any wall or ceiling surface and allow it to blend in with most styles of interior decor. EAP devices also support Power over Ethernet (PoE), making deployment effortless and flexible.

TP-Link team engineered the Wi-Fi solution to handle heavy multi-user usage in large areas without encountering the same stability issues found with standard routers and access points designed for home use. It's the perfect fit for the hospital and what it required. In addition, the hospital has been able to Captive Portal efficient guest authentication technology to provides a convenient method of authentication for Wi-Fi guests by requiring users to perform certain actions before network access is allowed. It can also control connections to your network with a voucher system and customised authentication page. The feedback is very good until now, the Family Care Hospital is very satisfied with the TP-Link Omada EAP245 Wi-Fi solution.



## ♥ BUSINESS RESULTS

Because the Omada EAP offers a unified Wi-Fi for a multi-user business environment, the Family Care Hospital ensured that the