

LUXURY HOTEL CASE STUDY

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OBJECTIVES

A new luxury hotel required reliable Wi-Fi coverage to provide guests with complimentary Wi-Fi. During the construction phase, the hotel supplied accurate, to-scale floor plans. The hotel engaged Akomplished to perform an off-plan Access Point (AP) placement design.

APPROACH

Customer Requirements:

The hotel provided a detailed Scope of Works (SoW), outlining the essential requirements for the wireless network. This included the AP model, minimum signal strength, anticipated usage, and coverage areas.

Project Design:

Using Ekahau AI Pro, we transformed the hotel's floor plans into a detailed 3D network plan. We started by creating the building layout, adding each floor, and setting essential parameters such as ceiling height, material thickness (for attenuation), and floor alignment points. We also defined zones such as 'hole-in-floor' areas and exclusion zones, added all walls and obstacles, and fine-tuned coverage, capacity, and usage profiles to align with the SoW.

Access Point Details:

We added simulated APs to the design, using the model specified in the SoW. For each AP, we set details such as whether it would be ceiling, wall, or floor-mounted, as well as the height, tilt, TX power, and channel assignments for each radio.

Design and Visualisation:

Drawing on our experience in hotel Wi-Fi environments, we developed an optimal AP placement design. Each heatmap visualisation was reviewed to ensure all coverage, capacity, and signal requirements were met.

Report:

We provided a detailed report, including the final AP design, along with performance expectations like signal strength, data rates, and signal-to-noise ratios.



AT A GLANCE

CHALLENGES

- Complex layout
- Coverage demands
- High user traffic

BENEFITS

- Cost efficiency
- Seamless implementation
- Optimal performance



NICKY MONK

Wireless Specialist
Akomplished Wi-Fi Solutions

"For over 5 years, our company has been improving the brand and company images to give a proper experience to our customers."

OUTCOME

The AP design was implemented as recommended in our report. Akomplished performed a thorough coverage check of all areas before the hotel opened to guests. The results confirmed that the actual performance aligned with the simulated design and met all SoW requirements.

RESULTS



100%

Coverage



100%

Wireless
SoW
Requirements Met



100%

Hassle-Free
Wi-Fi

BENEFITS

1. Cost-Effective

The off-plan design allowed for a more affordable solution by avoiding costly adjustments during installation.

2. Improved Customer Experience

By providing an optimal AP design, we ensured that cabling contractors could implement the design seamlessly, delivering a hassle-free wireless solution from the start.

3. Optimal Wi-Fi

The off-plan design provided the hotel with an outstanding wireless solution, meeting or exceeding the SoW requirements.