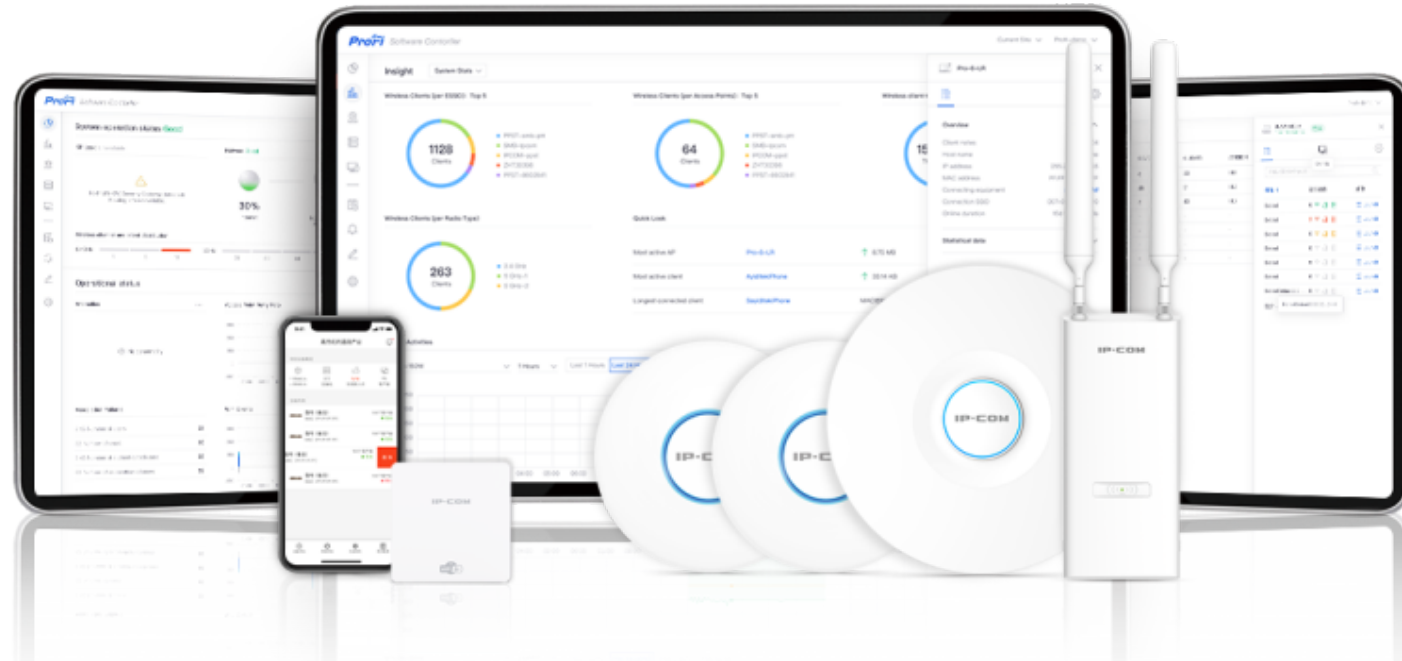


IP-COM Luxury Hotel WLAN Solution

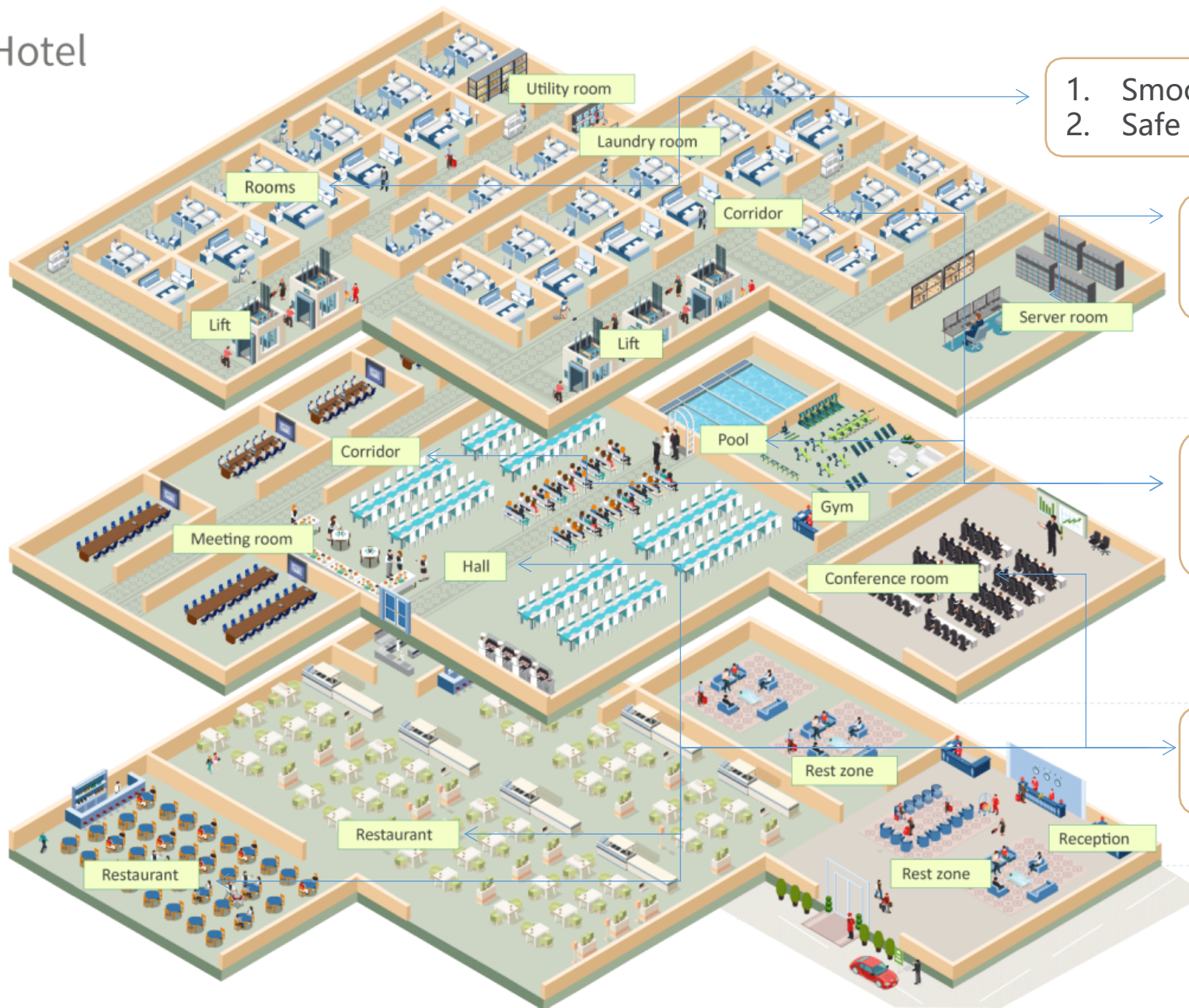
——Luxury Hotel



1. Requirements
2. Solutions
3. Benefits
4. Recommendations

1. WLAN requirements of luxury hotel scenarios **IP-COM** World Wide Wireless

Luxury Hotel



1. Smooth internet access with no lag.
2. Safe network access

1. Remote management and easy maintenance.
2. Network status can be monitored.

1. WiFi coverage without dead spots
2. Roaming in hotels without losing connection

1. Wireless access for multiple devices
2. Full Wi-Fi coverage inside the hotel.

1. Requirements Summary

1 Good signal, large coverage without dead zone



2 Good WiFi experience



3 Good internet security



4 Simple maintenance and Low failure rate



1. Requirements
2. **Solutions**
3. Benefits
4. Recommendations

2. Solution——Hotel lobby

Hotel lobby: Deploy multiple ceiling APs depending on the size of the area

The hotel lobby is a large space and needs to have Wi-Fi coverage with good roaming without dead zone; both internal network and guest network have internet access at the same time.



Ceiling AP

Large coverage

High-power and high-gain omnidirectional antenna design, single AP coverage up to 500 m².

Good roaming

It supports fast roaming protocols 802.11K, V, and R, and terminal devices can make smooth wireless switching.

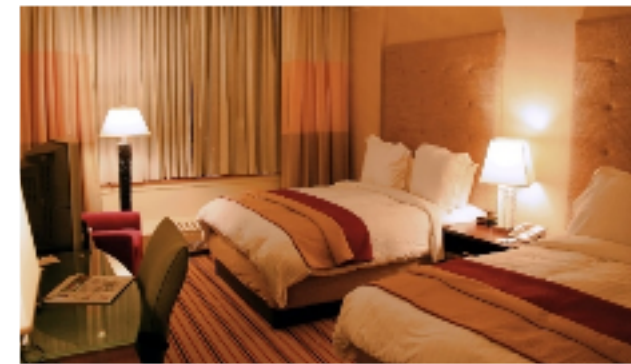
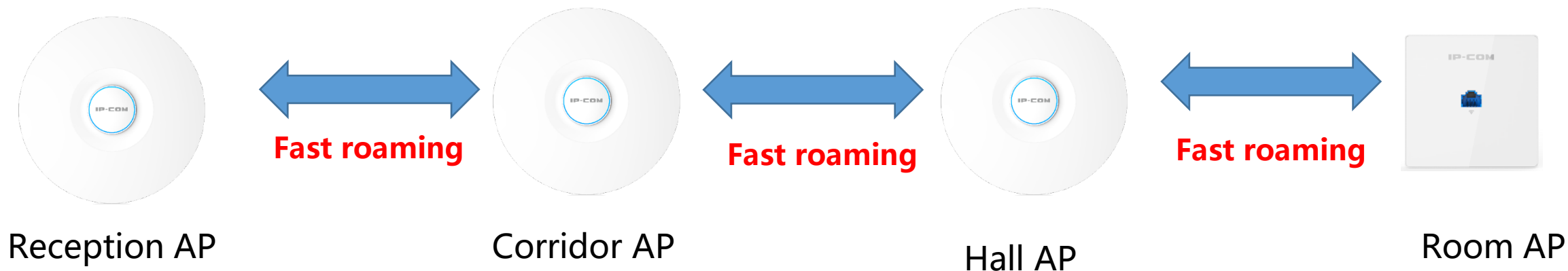
SSID Separation

Staff and guest SSIDs are bound to different VLANs and different networks are separated to improve network security and reliability.

2. Solution——Public areas

Corridor/public area: Deploy a **dual-band ceiling AP** every 15-20 meters

Use ceiling-mounted APs to ensure full coverage of the hotel's internal wireless network for Corridors and other indoor public areas of the hotel.



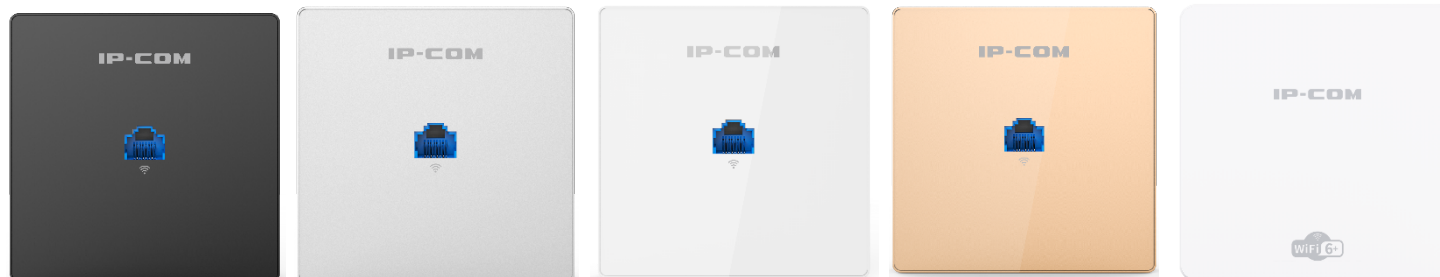
2. Solution——Hotel room

Hotel room AP deployment: deploy a gigabit dual-band in-wall AP in each room

The hotel rooms are small in size with fewer connected terminal devices. One in-wall AP is deployed in each room, which not only meets the coverage requirements of a single room, but also improves the WiFi access experience in the room.



Scene: Small area,
few terminal devices



In-Wall

Elegant
appearance

Stylish design with a wide
range of colours to suit all
decoration styles.

Easy installation

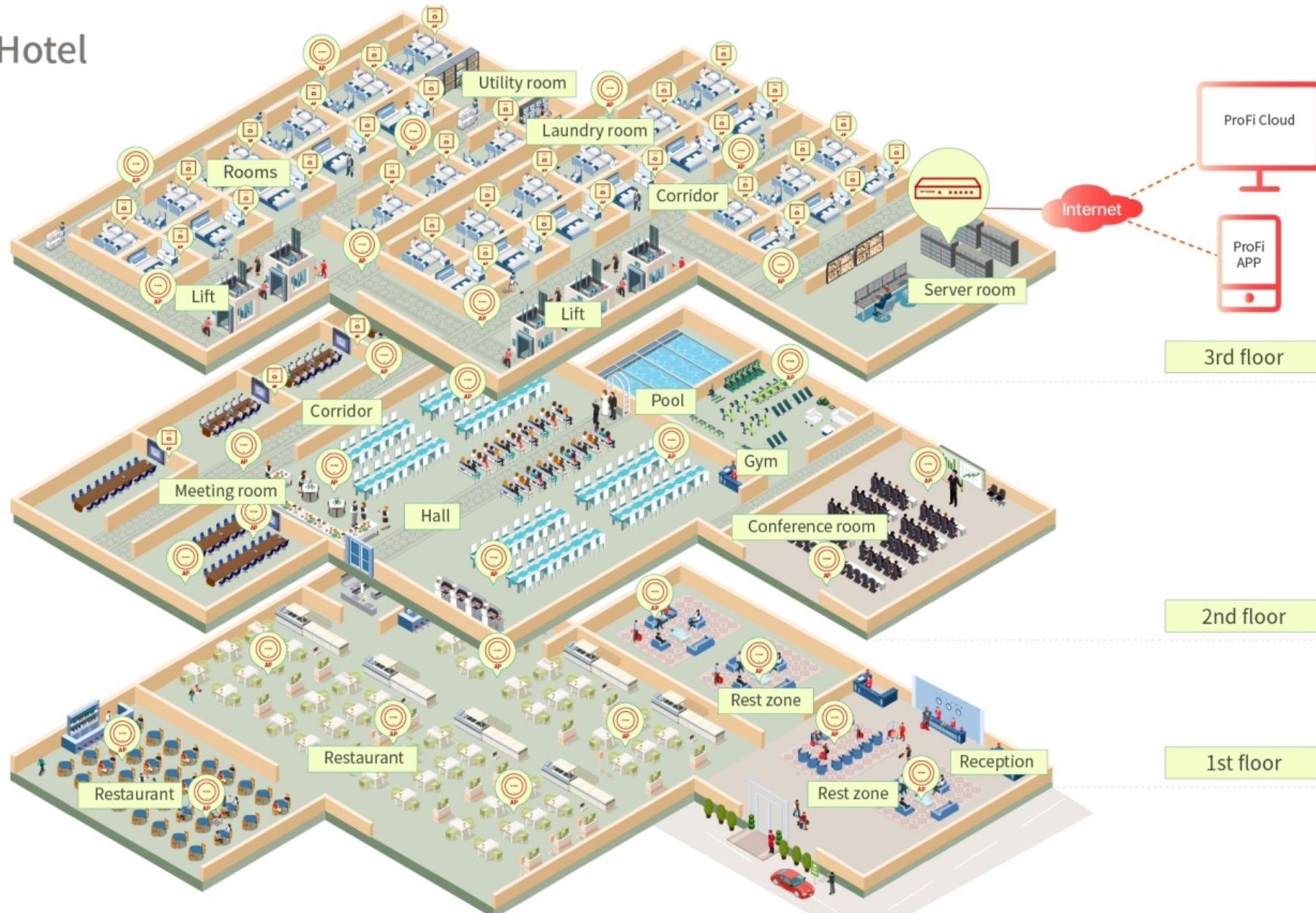
Supports PoE power
supply and only requires
one Ethernet cable.

High speed

3000Mbps wireless rate
without wall penetration

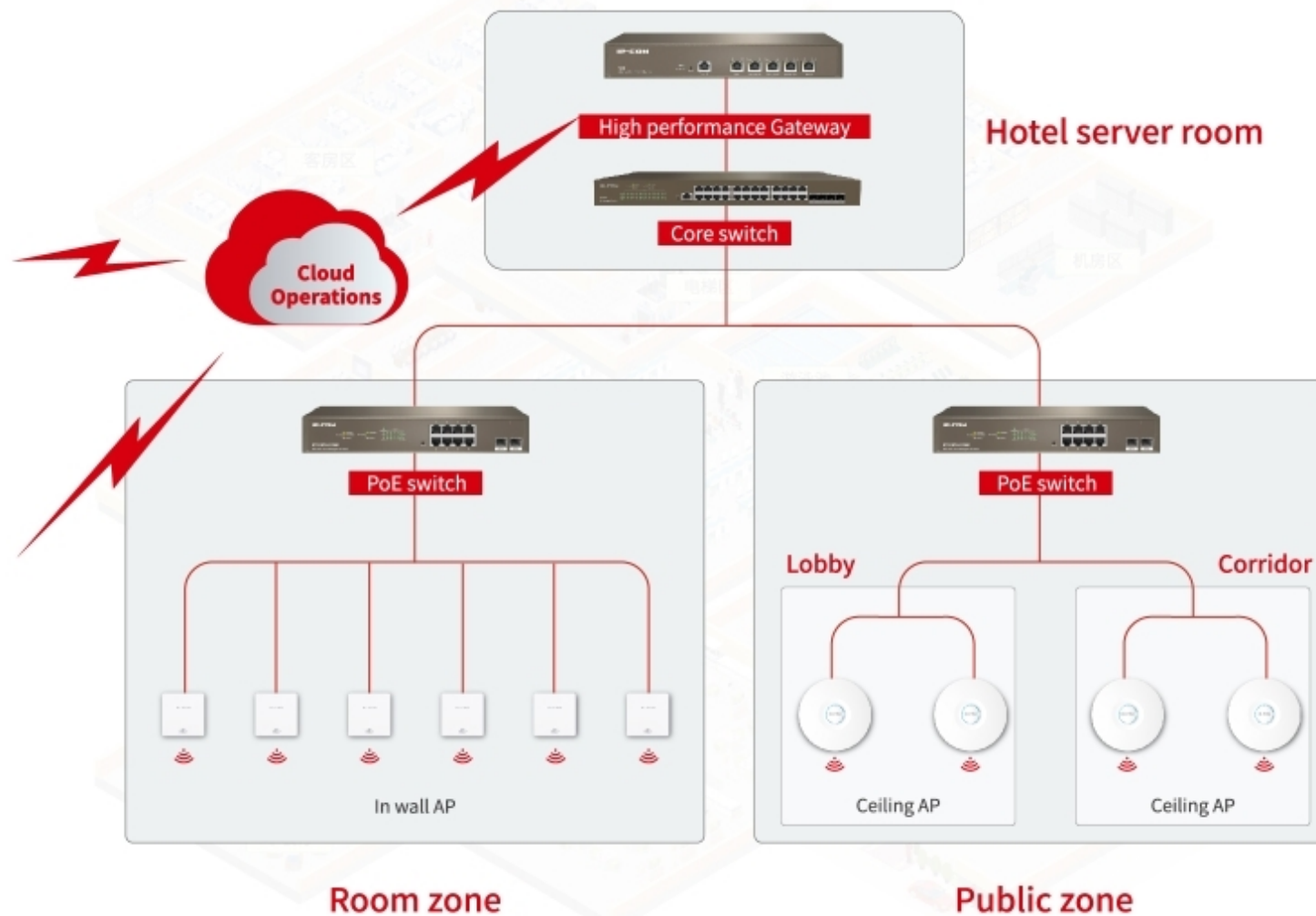
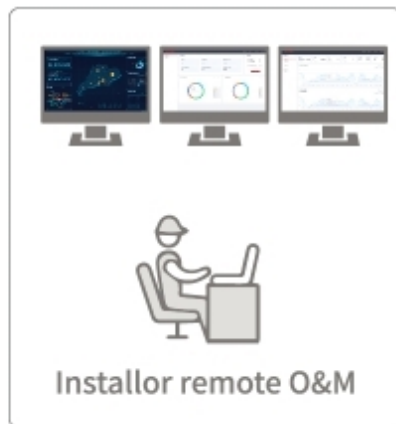
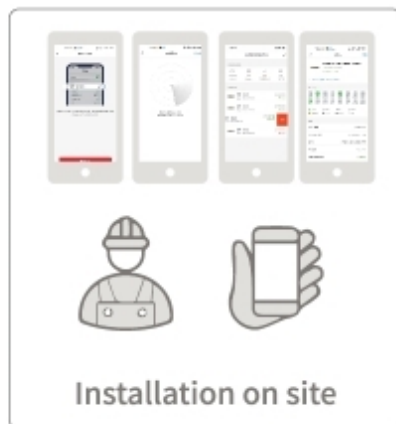
2. Solution——General Design

Luxury Hotel



2. Solution——Network topology

Luxury Hotel



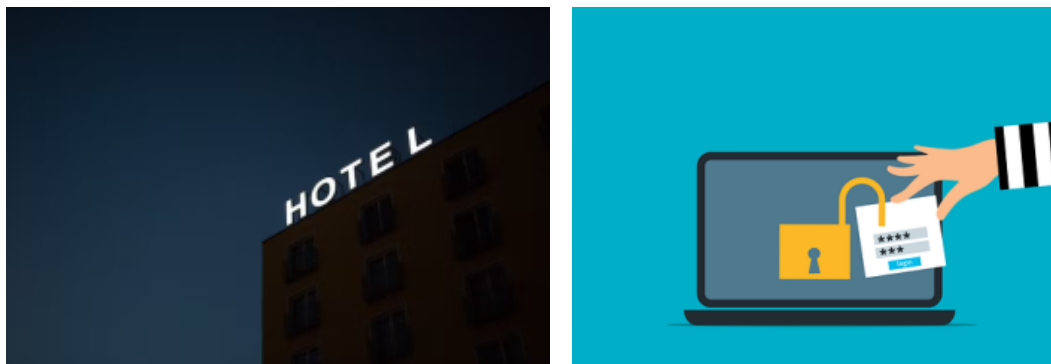
1. Requirements
2. Solutions
3. **Benefits**
4. Recommendations

3. Benefits——WiFi Marketing

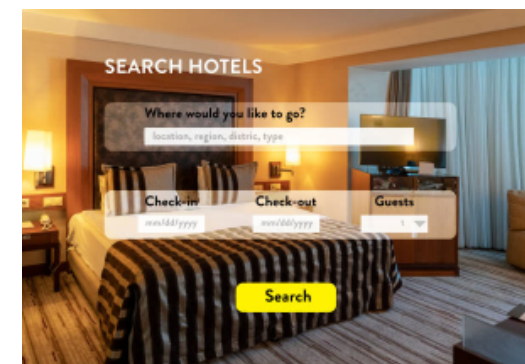
The hotel guest network can use Portal Authentication, supporting a variety of authentication methods such as one-key Internet access, SMS authentication and account/password. The portal authentication page can be designed to deliver hotel-related advertising content for accurate marketing.



(1) Connect to hotel WiFi



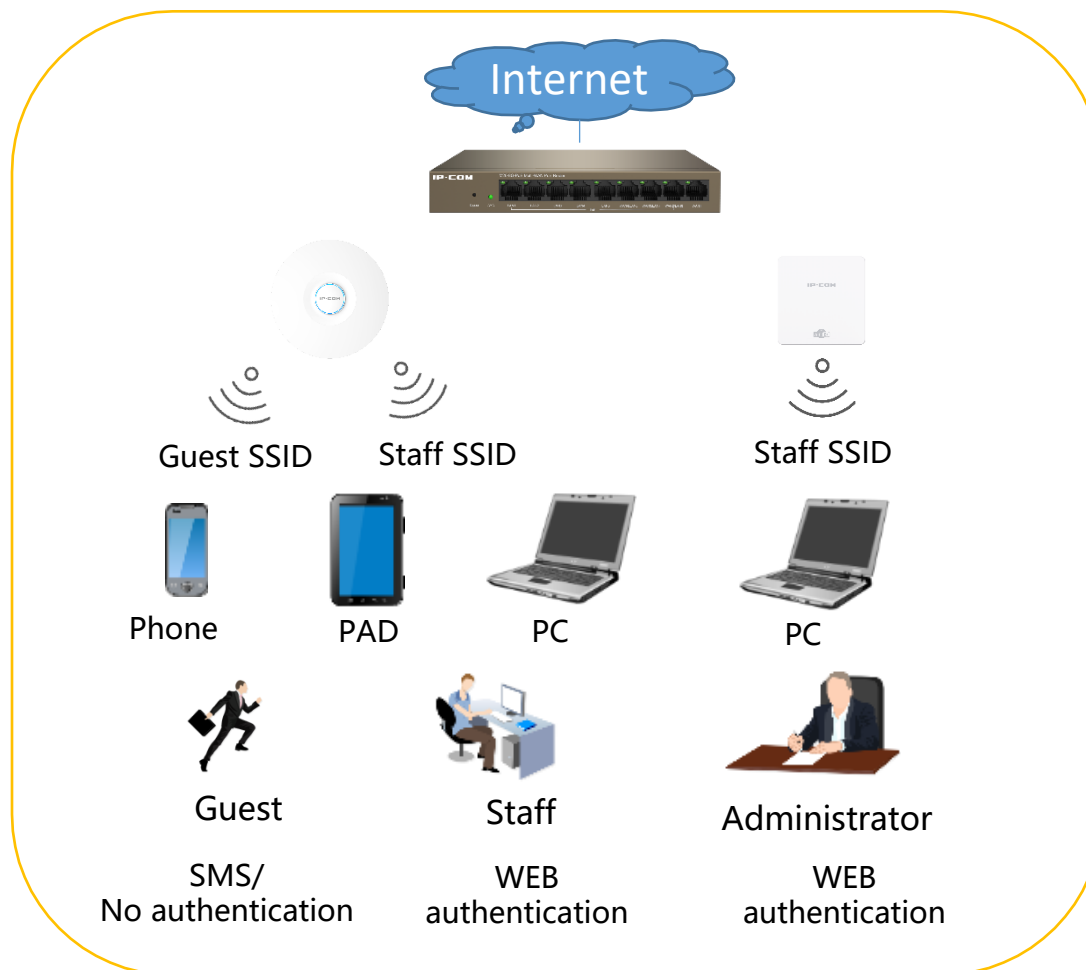
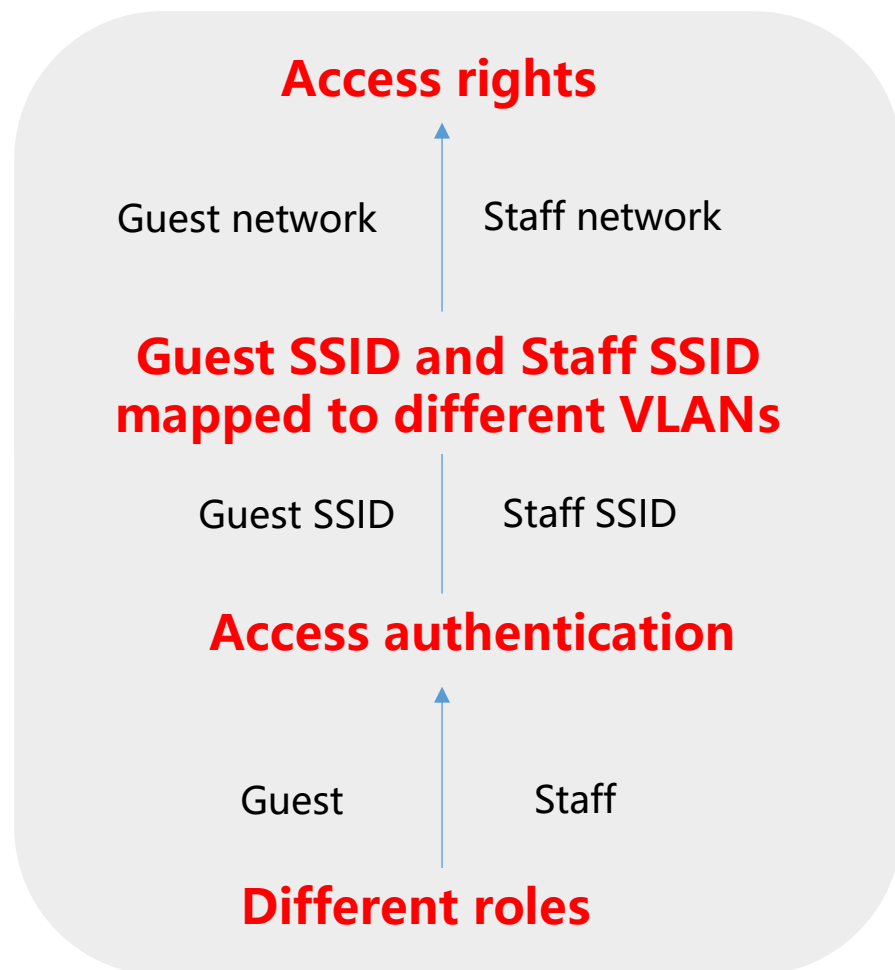
(2) Portal authentication



(3) Deliver hotel-related advertisements

3. Benefits——Separated networks

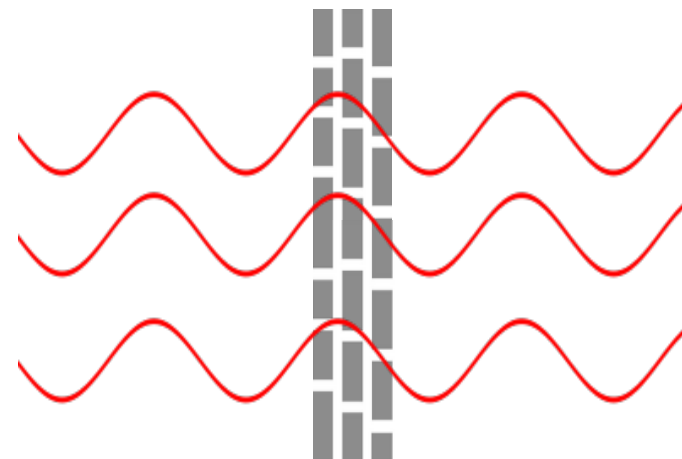
The dedicated guest SSID can easily distinguish accesses for guests and staff; Employees can only access the intranet through authentication; Different areas can be divided by VLANs to the hotel network security.



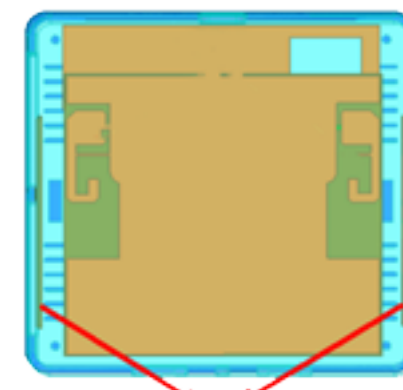
3. Benefits——Large WiFi coverage



High power and high gain
Better Penetration
Coverage without dead zone



Dual band symmetrical PCB independent antenna
Higher antenna gain than traditional APs
better signal
larger coverage



Dual band symmetric antennas

3. Benefits—High quality wireless experience

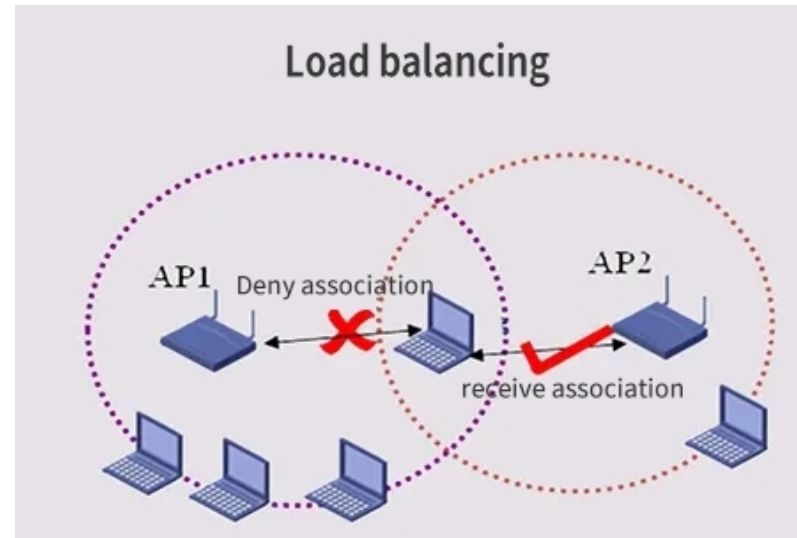
IP-COM
World Wide Wireless

Seamless roaming



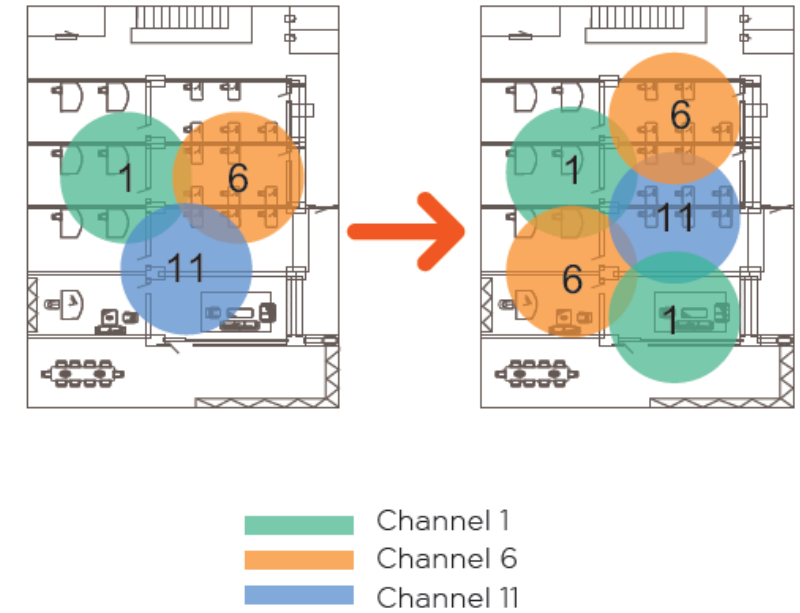
smooth switching

Load balancing



Fit high-density environment

Automatic channel optimisation



Automatically reduce
inter-AP interference

3. Benefits——Easy to use, effortless project experience



Only need a phone

- Automatic pre-sales solution generation and online consultation;
- Gateway, switch, AP managed by APP
- APP One-key Network configuration;
- Engineering acceptance tests, e.g. signal, network speed;
- Automatic report generation



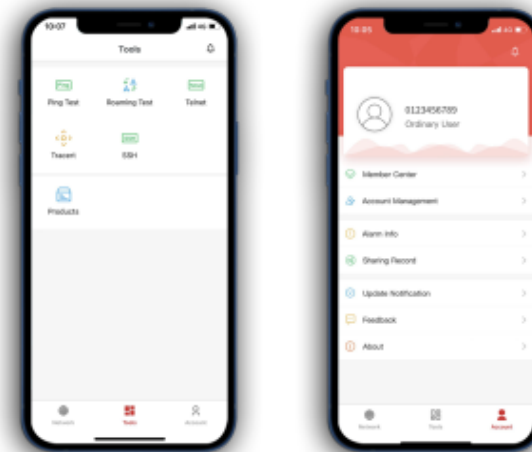
Rapid negotiation, no struggle for solutions



Rapid deployment, simple operation and maintenance








Rapid acceptance, no delays in project delivery








1. Requirements
2. Solutions
3. Benefits
4. Recommendations

4. Recommendations

——Cost-effective WiFi 5 solution

Scene	Device	Model	Image	Features	Layer
Server room	Gateway	M50		<ul style="list-style-type: none">• 5*Gigabit RJ45 ports, supports 4 broadband accesses• PPPoE,WEB,SMS authentication• Maximum user capacity: 200• MAX AP Manage number:100• Captive Portal: 300• Smart Bandwidth Control	Core layer
Server room	Switch	G5328X		<ul style="list-style-type: none">• 24*Gigabit RJ45 ports, 4*10 Gigabit SFP ports• Switch capacity 598Gbps• DHCP server, Layer 3 dynamic and static routing, Cloud/App management	Core layer
Low voltage silo on floors	Switch	G3326P-24-410W		<ul style="list-style-type: none">• 24*Gigabit RJ45 ports + 2 Gigabit SFP ports• PoE budget of whole device: 410W• Cloud/App management	Access layer
Rooms	In-wall AP	W36AP		<ul style="list-style-type: none">• 300Mbps+867Mbps• 2*Gigabit RJ45 ports• 18dBm+16dBm	Access layer
Corridor/other public areas	Ceiling AP	W63AP		<ul style="list-style-type: none">• 300Mbps+867Mbps• 1*Gigabit RJ45 port• 26dBm+26dBm	Access layer

4. Recommendations——High Performance WiFi 6 Solution

Scene	Device	Model	Image	Features	Layer
Server room	Gateway	M50		<ul style="list-style-type: none">• 5*Gigabit RJ45 ports, supports 4 broadband accesses• PPPoE,WEB,SMS authentication• Maximum user capacity: 200• MAX AP Manage number:100• Captive Portal: 300• Smart Bandwidth Control	Core layer
Server room	Switch	G5328X		<ul style="list-style-type: none">• 24*Gigabit RJ45 ports, 4*10 Gigabit SFP ports• Switch capacity 598Gbps• DHCP server, Layer 3 dynamic and static routing, Cloud/App management	Core layer
Low voltage silo on floors	Switch	G3326P-24-410W		<ul style="list-style-type: none">• 24*Gigabit RJ45 ports + 2 Gigabit SFP ports• MAX PoE Power Supply: 410W• Cloud/App management	Access layer
Rooms	In-wall AP	Pro-6-IW		<ul style="list-style-type: none">• 574Mbps+2402Mbps• 2*Gigabit RJ45 ports• 20dBm+20dBm	Access layer
Corridor/other public areas	Ceiling AP	Pro-6-LR		<ul style="list-style-type: none">• 574Mbps+2402Mbps• 2*Gigabit RJ45 ports• 29dBm+29dBm	Access layer

IP-COM / THANKS

WORLD WIDE WIRELESS