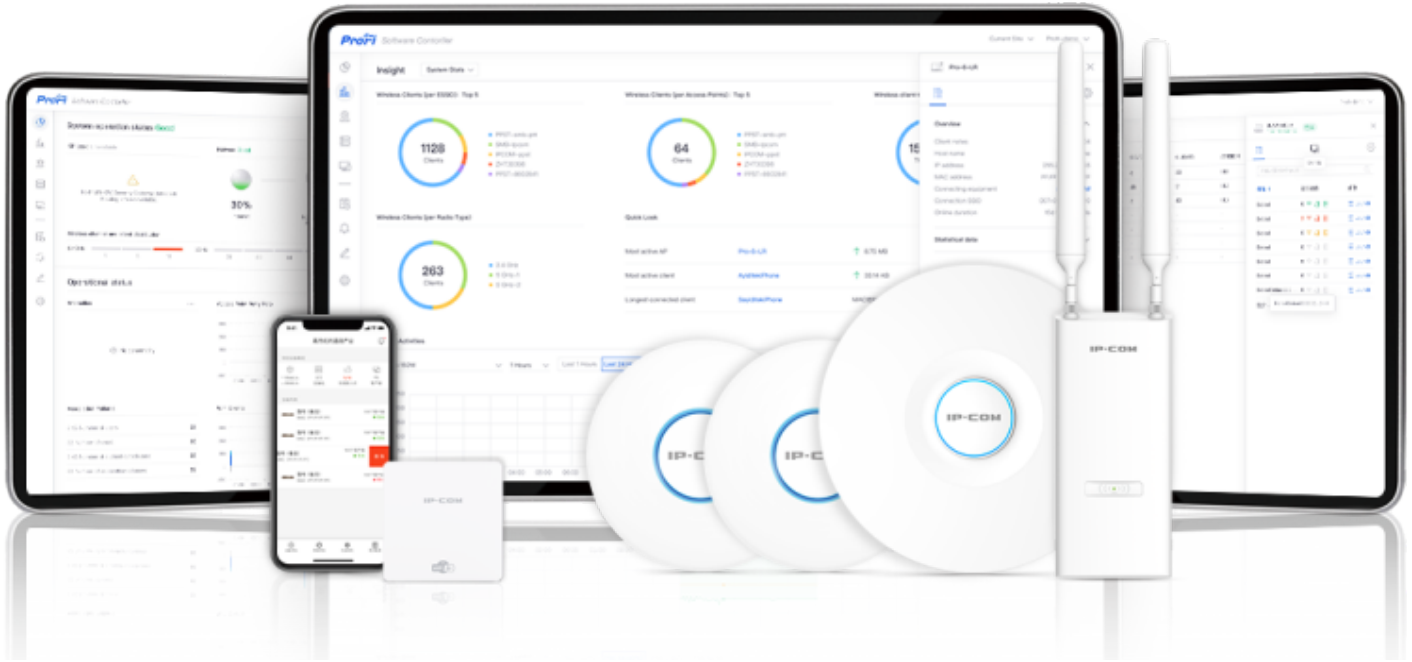
IP-COM
World Wide Wireless

IP-COM Hotel WLAN Solution

——Hotel



Catalogue

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

1. WLAN requirements of hotel scenarios

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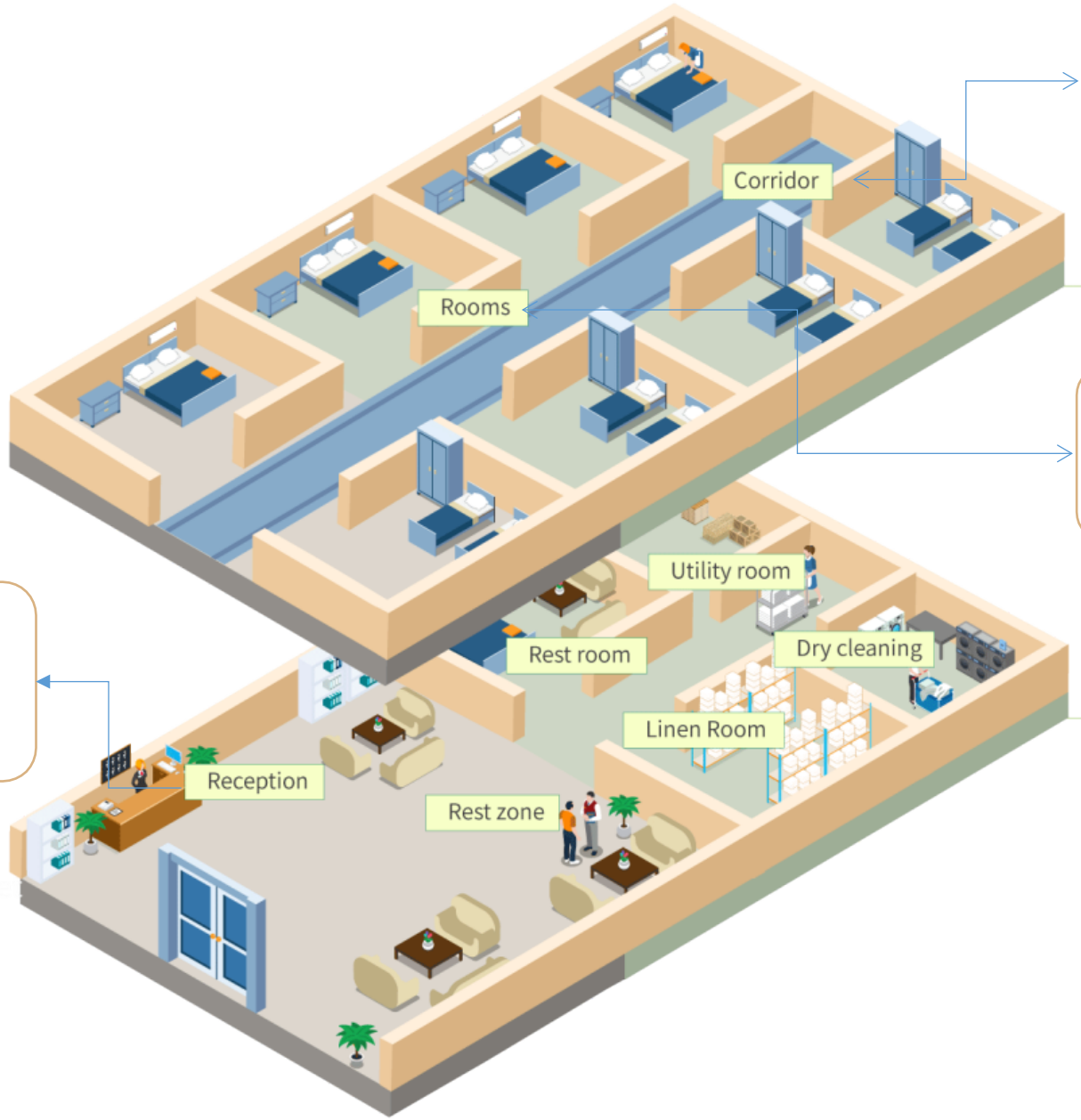
Hotel



1. WiFi coverage every corner
2. Roaming in hotels without losing connection

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

1. Online checking and booking service
2. Low failure rate and easy maintenance

1. Requirements Summary

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1 Good signal, large coverage without dead zone

2 Good WiFi experience

3 Good internet security

4 Simple maintenance and Low failure rate

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2. Solution——Public areas

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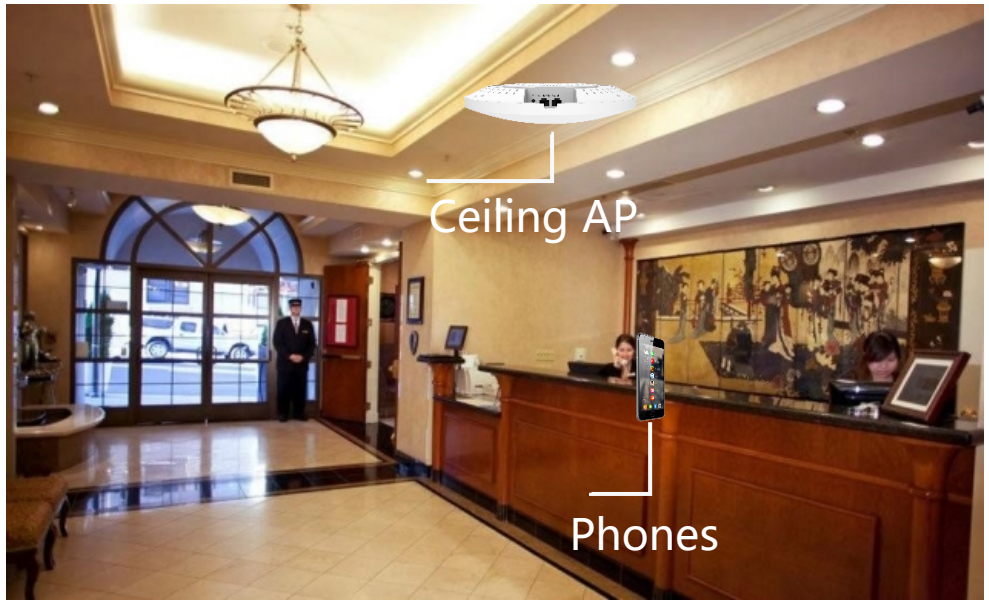
Reception/corridor/public area AP deployment: Deploy a dual-band ceiling AP every 15-20 meters

The reception desk, corridors and other indoor public areas of the hotel mainly use wireless to achieve the effect of auxiliary coverage of the network. These areas do not have too high requirements for wireless Internet access experience, so use a ceiling-mounted AP with a relatively large coverage. This can ensure full coverage of the hotel's internal wireless network.



Scene: large area and few terminal devices.

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.

High speed

WiFi 6 standard, 3000 Mbps rate, WiFi access to high-speed network without latency.

2. Solution——Hotel room

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

The hotel rooms are small in size and less 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 and 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

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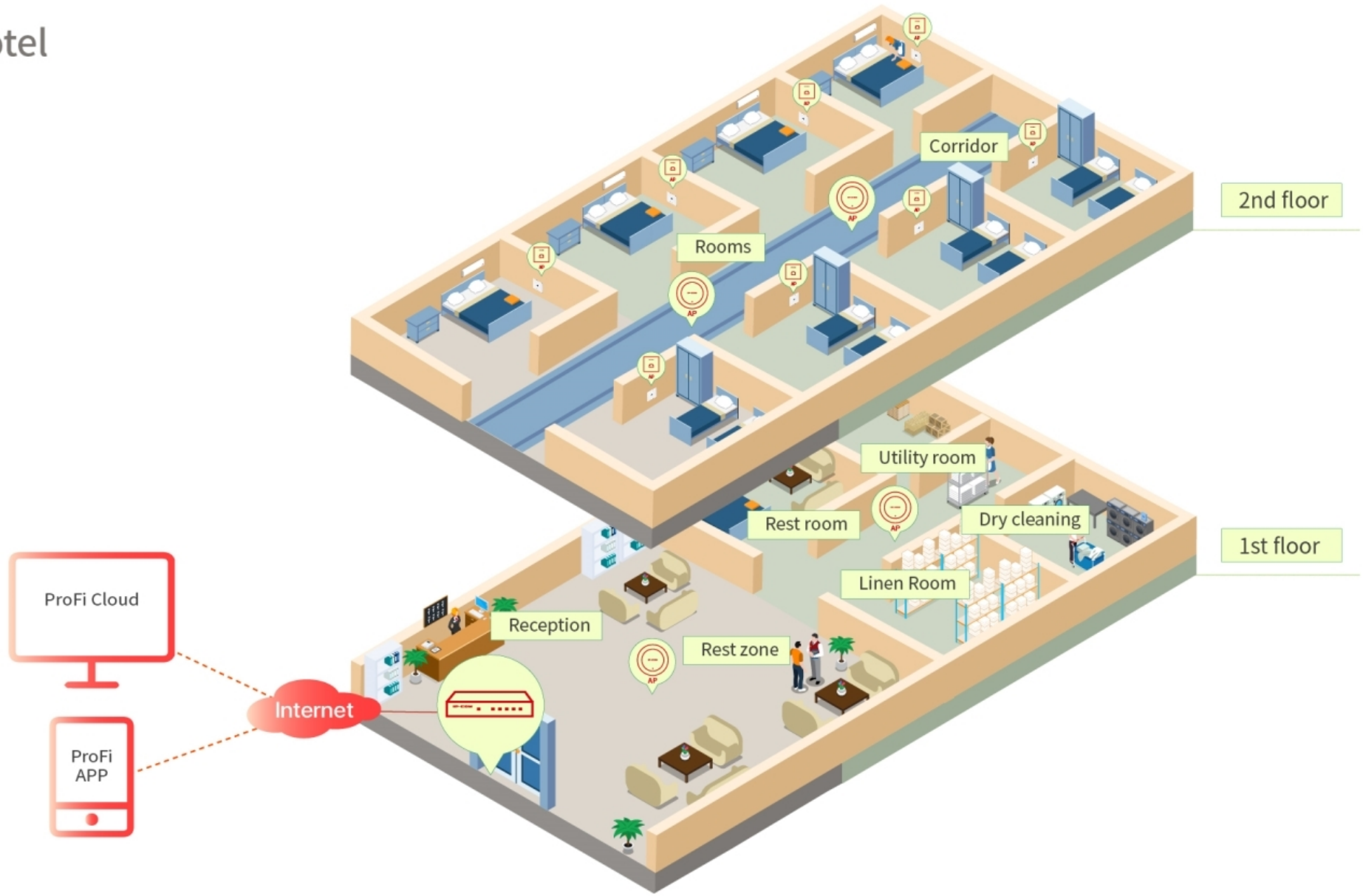

2. Solution——Network topology

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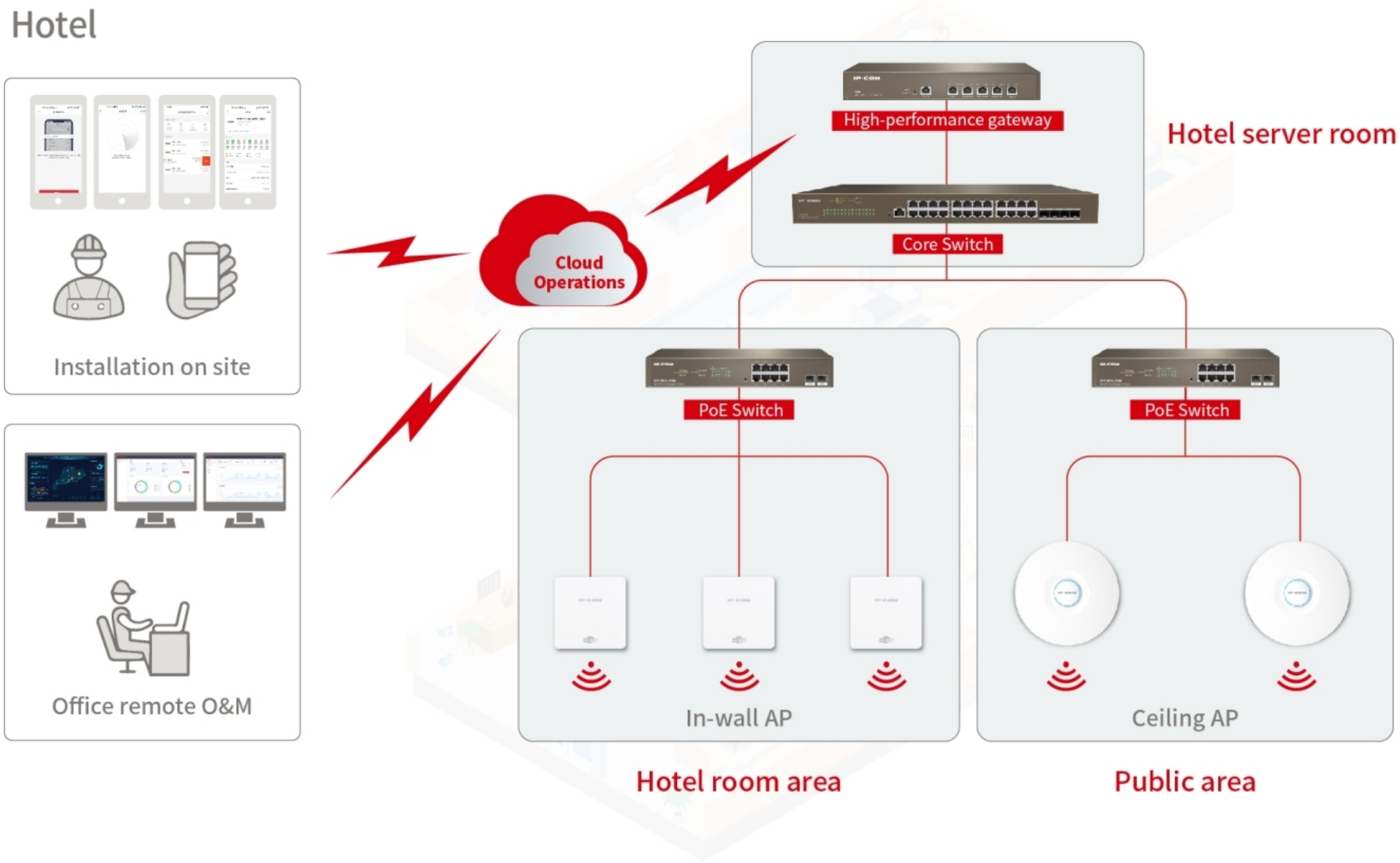

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IP-COM
World Wide Wireless

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3. Benefits——Large WiFi coverage

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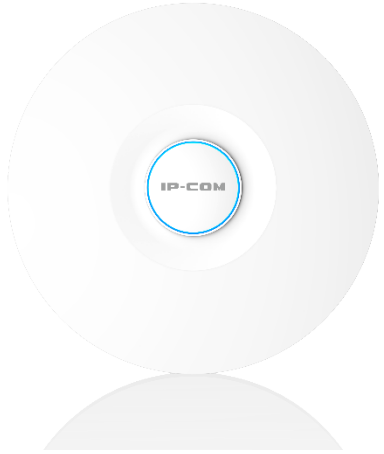
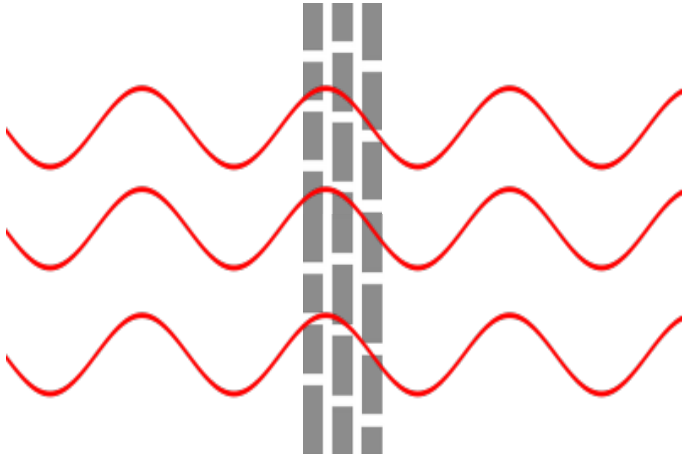


High power and high gain

Better Penetration

Coverage without dead spots



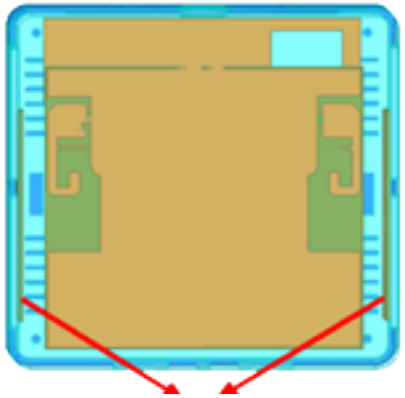
Dual band symmetrical PCB

independent antenna

Higher antenna gain than traditional APs

better signal

larger coverage



Dual band symmetric antennas

3. Benefits——Good wireless network experience

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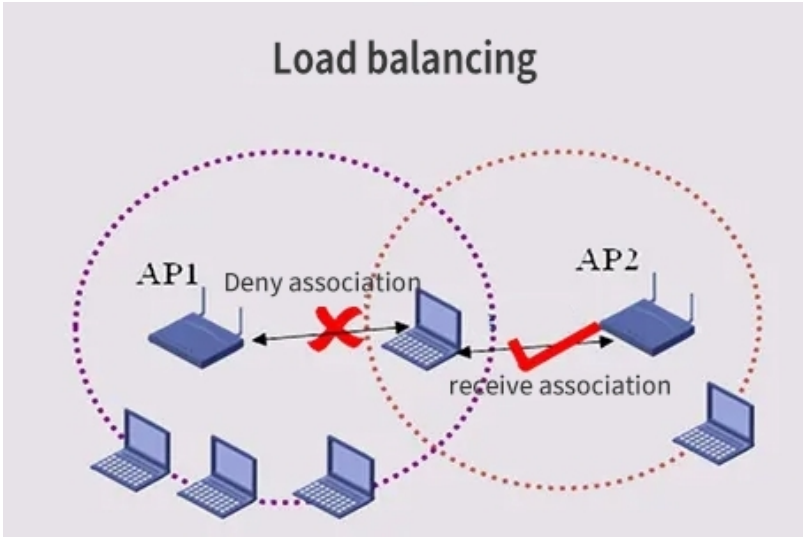
Seamless roaming

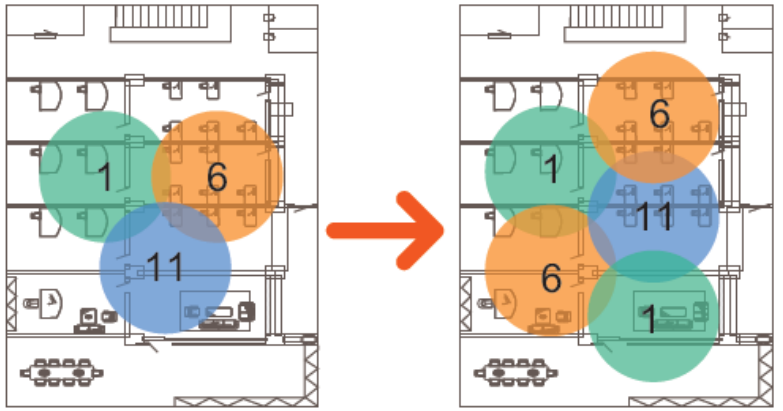
smooth switching

Load balancing



Fit high-density environment

Automatic channel optimisation



Automatically reduce inter-AP interference

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

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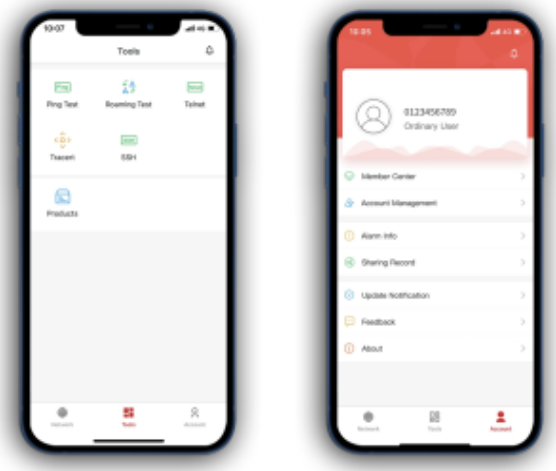
Only need a phone



- Automatic pre-sales solution generation and online consultation ;

→ **Rapid negotiation, no struggle for solutions**

- Gateway, switch, AP managed by APP

APP One-key Network configuration;

→ **Rapid deployment, simple operation and maintenance**

- Engineering acceptance tests, e.g. signal, network speed;
- Automatic report generation

→ **Rapid acceptance, no delays in project delivery**

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——Cost-effective WiFi5 solution

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Scene	Device	Model	Image	Features	Layer
Server room /Low voltage silo	Gateway	M50		• 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 /Low voltage silo	Switch	G3328F		• 24*Gigabit RJ45 ports, 4*Gigabit SFP ports • Switch capacity 336Gbps • 16K Mac address • Cloud management, App management	Core layer
Low voltage silo on each floor	Switch	G2210P-8-102W		• 9*Gigabit RJ45 ports, 1*Gigabit SFP ports • Max PoE Power Supply of whole device: 92W • Cloud management, App management	Access layer
Hotel room	In-wall AP	W36AP		• 300Mbps+867Mbps • 2*Gigabit RJ45 ports • 18dBm+16dBm	Access layer
Corridor/ Public area	Ceiling AP	W63AP		• 300Mbps+867Mbps • 1*Gigabit RJ45 port • 26dBm+26dBm	Access layer

4. Recommendations
——High Performance WiFi6 Solution

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Scene	Device	Model	Image	Features	Layer
Server room	Gateway	M50		• 5*Gigabit RJ45 ports, supports 4 broadband accesses • PPPoE,WEB,SMS authentication • Maximum user capacity: 200 • Smart Bandwidth Control	Core layer
Server room	Switch	G5328F		• 24*Gigabit RJ45 ports, 4*Gigabit SFP ports • Switch capacity 336Gbps • MAC address table 16K • DHCP server, Layer 3 static routing, Cloud/APP management	Core layer
Low voltage silo on each floor	Switch	G3310P-8-150W		• 8*Gigabit RJ45 ports, 2*Gigabit SFP ports • Switch capacity 128Gbps • Max PoE Power Supply of whole device: 130W • Cloud/APP management	Access layer
Hotel room	In-wall AP	Pro-6-IW		• 574Mbps+2402Mbps • 2*Gigabit RJ45 ports • 20dBm+20dBm	Access layer
Corridor/ Public area	Ceiling AP	Pro-6-LR		• 574Mbps+2402Mbps • 2*Gigabit RJ45 ports • 29dBm+29dBm	Access layer

IP-COM / THANKS

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