

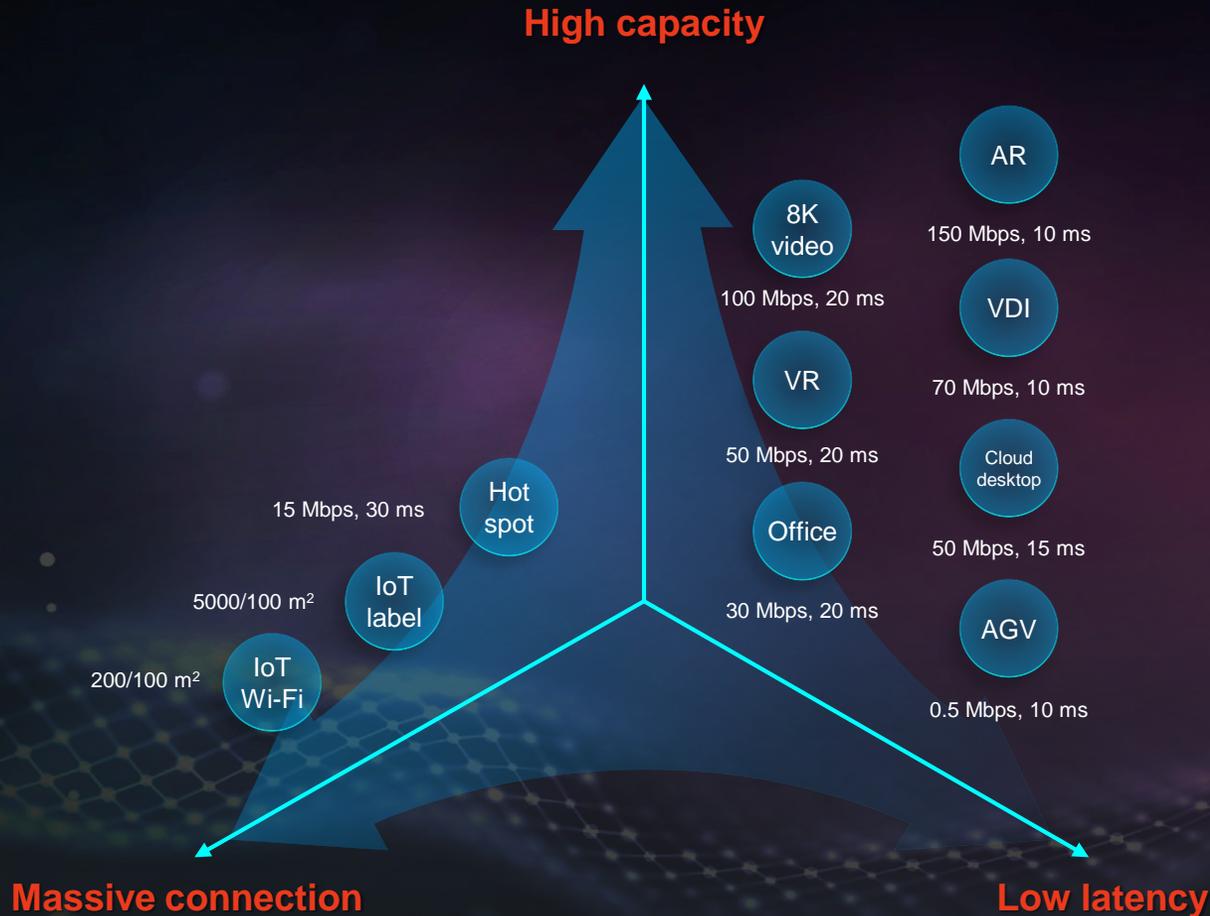
Huawei's Next-Generation Wi-Fi 6 Solution



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Huawei Enterprise Business Group



What Wi-Fi 6 Can Bring: Addressing Major Pain Points in Enterprise Wireless Applications, Delivers a Breakthrough in Core Technologies for New Applications and Scenarios, and Evolves from Best Effort to Guarantee



Wi-Fi 6 solves inherent Wi-Fi problems (regarding roaming, latency, continuous networking, etc.) in traditional applications and innovates standards for enterprise WLAN construction and experience.

Wi-Fi 6 meets the requirements of new applications for ultra-low latency, high-density connections, and high-bandwidth continuous networking, leading the all-wireless transformation of enterprise networks.

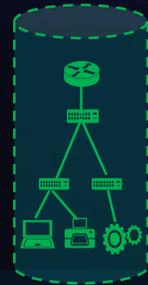
What Wi-Fi 6 Can Bring: Converging Wi-Fi and IoT Networks to Reduce Network Construction and Maintenance Costs

AS-IS

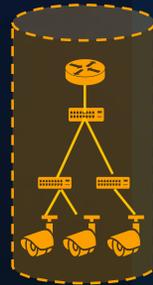
Campus network



Wireless office network



Dedicated IoT network



Dedicated video surveillance network

...

- Dedicated networks carrying different services, resulting in high network construction and maintenance costs
- Interference between different wireless environments

TO-BE

Cloud-based management



Bluetooth
RFID
zigbee



ESL



Asset label



Energy management



Infant abduction prevention



Fluid leakage detection

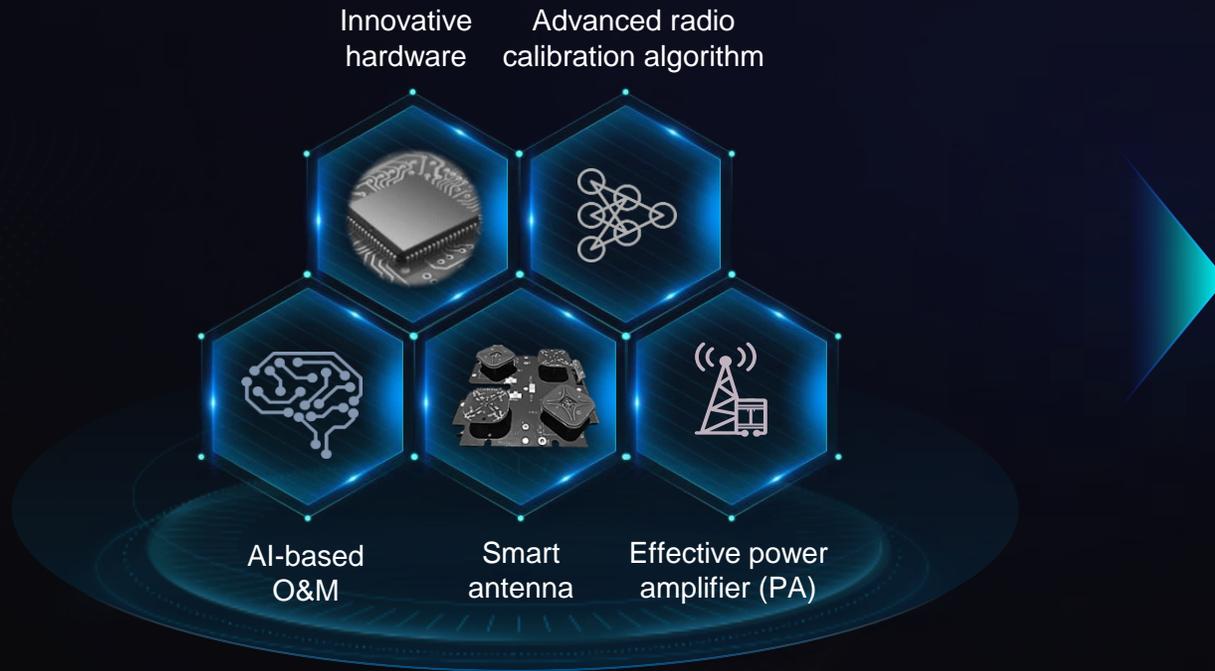


Student management

- Co-site and co-backhaul of Wi-Fi 6 and IoT networks, reducing TCO by 50%
- Interference detection association, increasing the IoT network capacity by 100%

Huawei Wi-Fi 6, Powered by 5G and AI-based SDRA: 100Mbps@Everywhere Fully Wireless Campus, Maximizing Performance of Each AP

Key Wi-Fi technology innovation and breakthrough



Innovative network enables ultimate experience

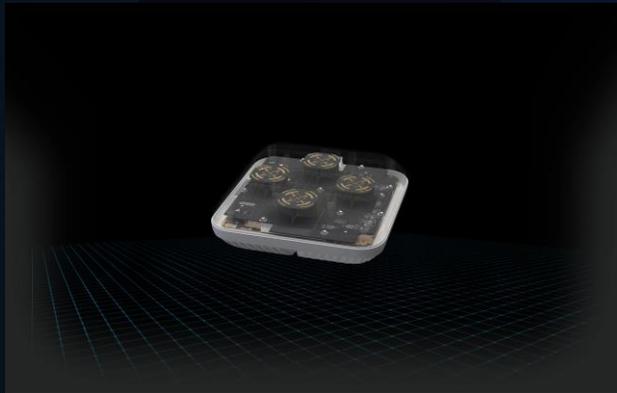


Industry's "More Stable" Wi-Fi 6: Huawei's Three Game-Changing 5G Technologies, Delivering Optimal Experience

Smart Antenna

Smart Antenna

More stable Wi-Fi coverage,
without coverage holes

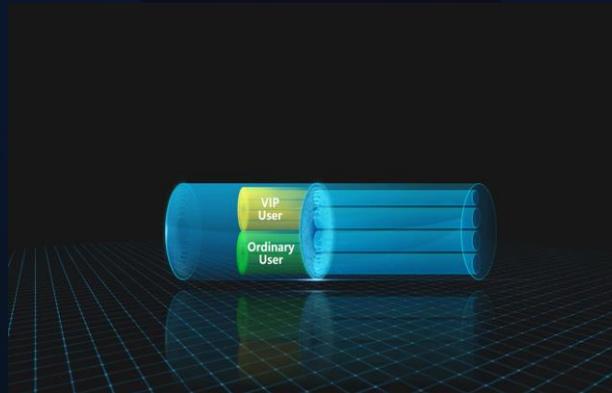


- Signals following users and optimized coverage directions at any time
- **20%** more coverage distance

Dynamic Turbo

Dynamic Turbo

More stable applications
with low latency

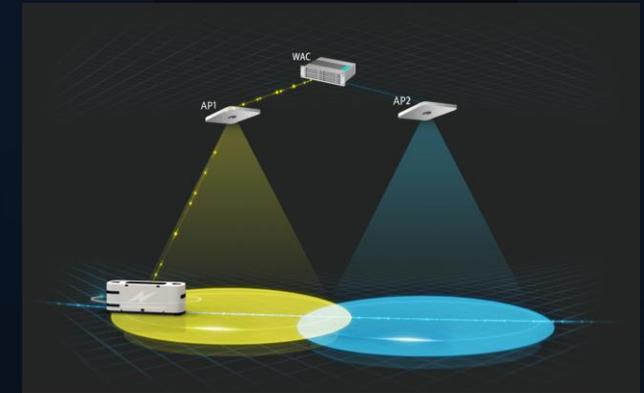


- Multi-queue packet scheduling acceleration algorithm
- Latency for high-priority applications as low as **10 ms**

Lossless Roaming

Lossless Roaming

More stable roaming
with "zero" packet loss



Edge intelligence, device-pipe synergy, and lossless resumable transmission, implementing **Zero packet loss** during AGV roaming

Industry's "Faster" Wi-Fi 6: Supporting Industry's More Spatial Streams and Higher Effective Frequency Bandwidth



Wi-Fi 6 Transforms Office Spaces: Improving Office Efficiency and Transforming Office Experience of Employees

Digital office

All-wireless access, office at anytime and anywhere, one-click conference scheduling using an app, and automatic adjustment of light and temperature



Huawei builds Wi-Fi 6-based global digital office spaces, supporting 15,000 HD smart screens and allowing for 7.25 billion instant messages, 4.56 billion emails, and 15 million IP or video conferences per month.

Wi-Fi 6 Transforms Production: Improving Self-Operation Efficiency and Transforming End User Experience

Digital production

A large number of always-on terminals and sensors, production data collection in real time, and precise AGV control



Huawei works with Quicktron to build a highly reliable AGV system. When 1000+ AGVs move at a speed of 2 m/s in a space of 20,000–30,000 m², a Wi-Fi 6 network reduces the number of disconnections from the original 100 times every week to zero, maximizing transport capacity of AGVs.

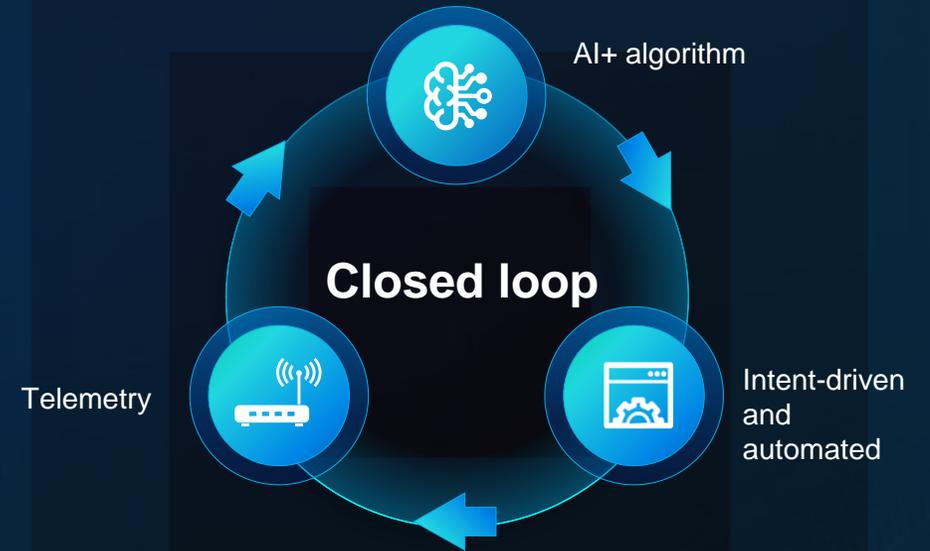
What Wi-Fi 6 Can Bring: Constructing a "Proactive O&M" Platform That Integrates Management, Control, and Analysis to Implement Fault Locating Within Minutes

AS-IS



- Passive response and maintenance, 90% faults driven by complaints
- Fault location and demarcation in days or hours, and fault rectification in days
- Manual network optimization

TO-BE



- Preventive and predictive maintenance
- Real-time SLA awareness, and demarcation and location for 85% faults in minutes
- AI+ algorithm-based automatic optimization

"Proactive O&M" Platform That Integrates Management, Control, and Analysis, Implementing Intelligent Large-Scale Networking

4 in 1

"Proactive O&M" platform that integrates management, control, and analysis, reducing TCO by 60%



Huawei All in one O&M

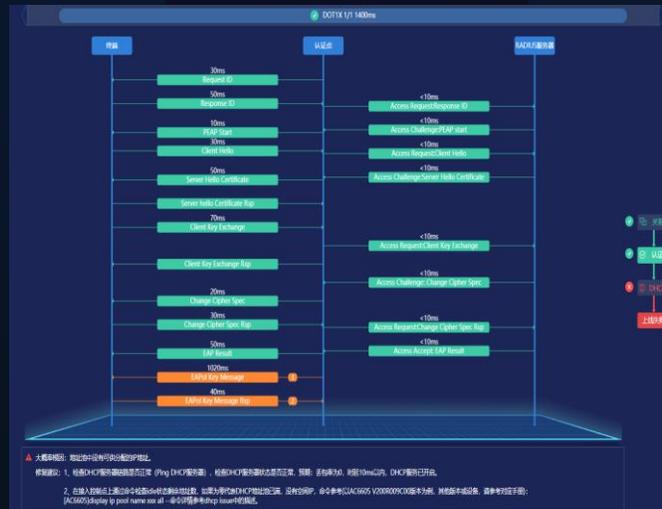


Other Vendors



Fault locating **within minutes***

Industry-unique protocol tracing (802.1X/Portal/MAC address authentication) and fast demarcation and location for **85% issues** within minutes



*Expert experience + AI learning: continuously building a **fault knowledge base**

Intelligent network optimization

Industry-unique intelligent radio calibration, achieving **58% better network-wide performance**



100M@Everywhere

Next-generation Huawei AirEngine Wi-Fi 6 Products

AirEngine
5760-51



6T6R

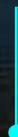


Retail, Supermarket

AirEngine 5760-22W
AirEngine 5760-22WD



6T6R



Hotel, Dormitory

AirEngine 6760-X1
AirEngine 6760-X1E



10T10R



Hall, Waiting Room

AirEngine 8760R-X1
AirEngine 8760R-X1E
AirEngine 6760R-51
AirEngine 6760R-51E



**16T16R
8T8R**



Stadium

AirEngine 8760-
X1-PRO



16T16R



E-Classroom, Meeting Room



Huawei **AirEngine Wi-Fi 6** Accelerating Campus Network Digitalization
