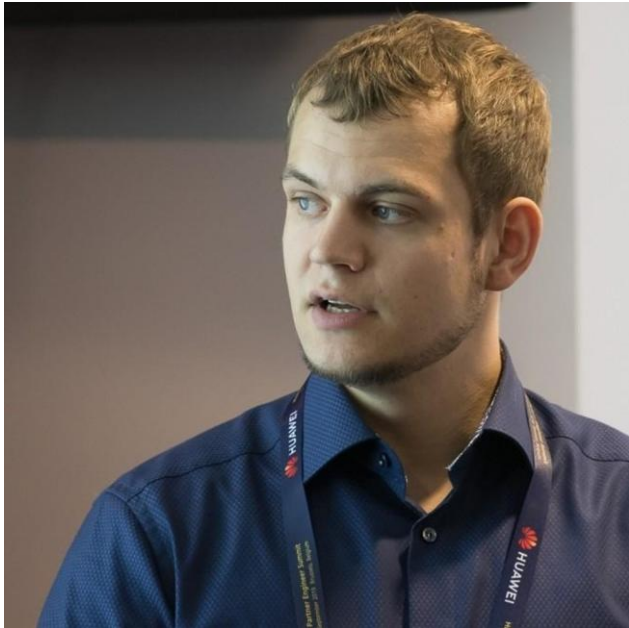


WiFi + X – WLAN kann mehr

Daniel Jaksch
Huawei Technologies

Persönliche Vorstellung



Daniel Jaksch Solution Sales Manager Network







- PreSales: Konzepterstellung, Produktmanager
- Seit 08/2021 bei Huawei

Historie

- Ausgebildeter IT-Systemelektroniker
- 2011 – 2016 Vodafone: Umbau/Planung Mobilfunk Access- und Transportnetz auf **Huawei Carrier**
- 2016 – 2021 KOMSA: Post- und PreSales Engineer **Huawei Enterprise**



Constantly evolving Wi-Fi standards

Wi-Fi Alliance®	0	1	2	3					
Standard	802.11	802.11b/a	802.11g	802.11n	802.11ac Wave 1/2	802.11ax 		802.11be	802.11bn
Maximum rate	2 Mbps	11 Mbps 54 Mbps	54 Mbps	600 Mbps	1.73 Gbps	9.6 Gbps		23 Gbps	
Frequency band	2.4 GHz	2.4 GHz, 5 GHz	2.4 GHz	2.4 GHz, 5 GHz	5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz, 6 GHz	2.4 GHz, 5 GHz, 6 GHz	

1997

1999

2003

2008

2014

2019/2020

2022

2024

2028/2029

64-QAM
Dual bands

256-QAM
MU-MIMO (DL)
OFDM
WPA2

1024-QAM
160 MHz
MU-MIMO
OFDMA
WPA3

4096-QAM, 320 MHz, MLO, MRU



2018: AP7060DN, the industry's 1st Wi-Fi 6 AP



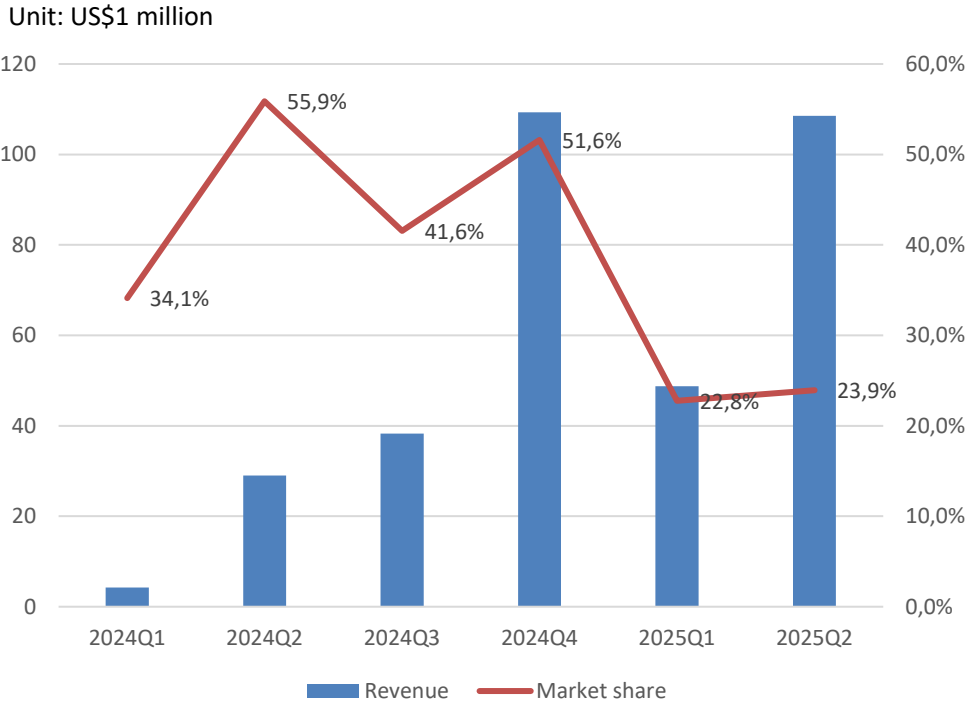
2022: AirEngine 8771, the industry's 1st enterprise-class Wi-Fi 7 AP



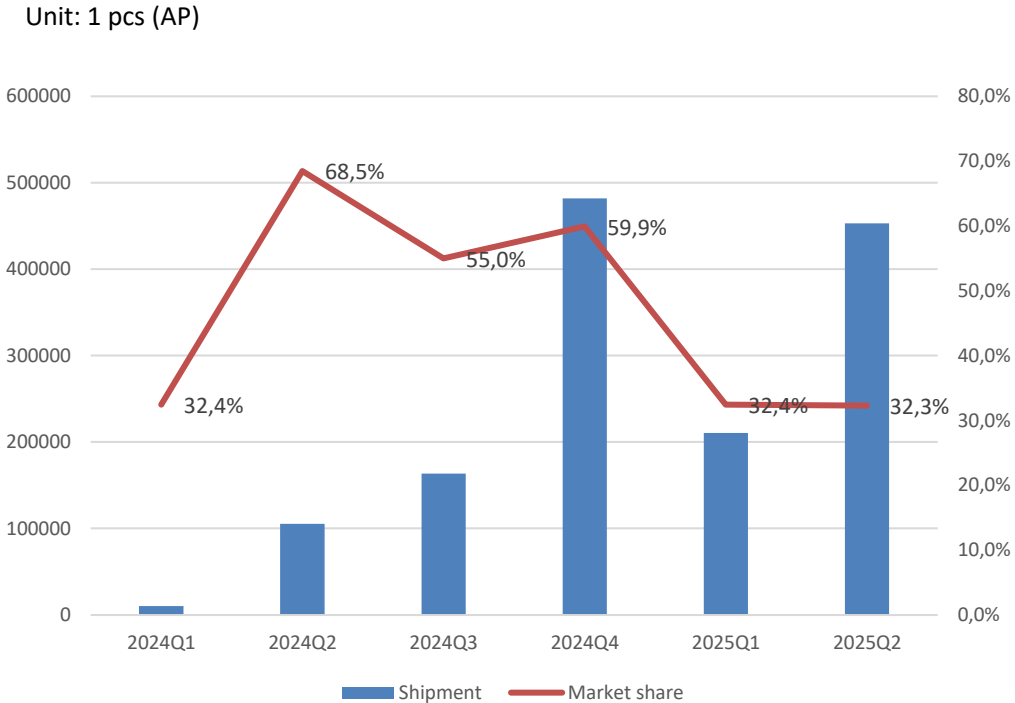
2024: the industry's 1st all-scenario Wi-Fi 7 APs

Strong performance in the enterprise Wi-Fi market, due to best-in-class products and services

No. 1 in the global Wi-Fi 7 market



No. 1 in global Wi-Fi 7 shipments



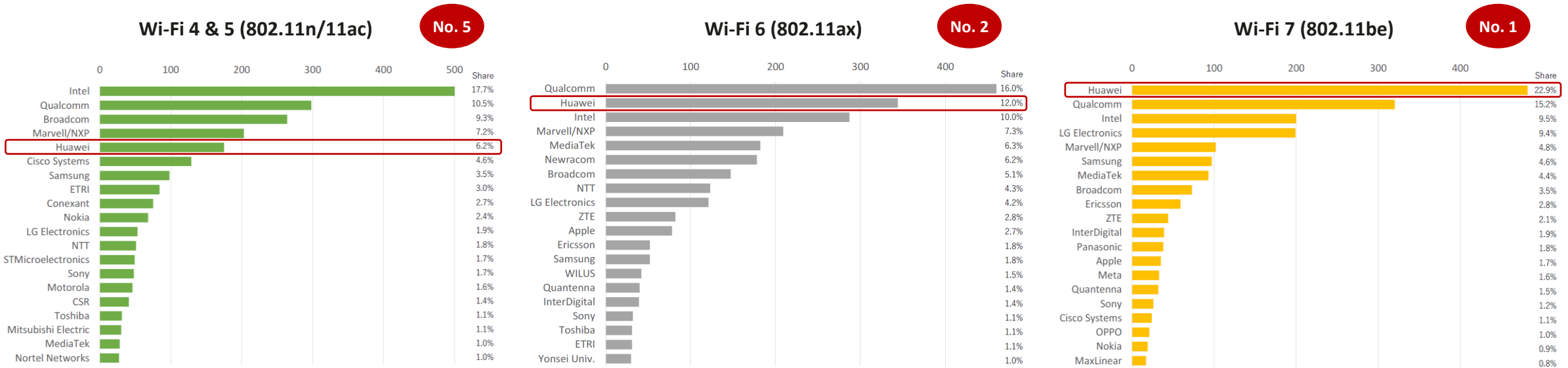
Source: IDC [Quarterly Wireless LAN Tracker, Q2 2025](#)



Largest contributions to the Wi-Fi 7 standard: 22.9% of the total

Top 20 contributors to Wi-Fi standards

Source: NGB Corporation



IEEE 802.11ax (Wi-Fi 6)

Chair

Osama Aboul-Magd



IEEE 802.11be (Wi-Fi 7)

Technical Editor

Edward Au

AP Management Modes

01 Cloud Managed APs with or without WAC



MSPs build and operate CloudCampus platform

02 On-Premise without NCE

- Standalone WAC
- Native WAC (switch integrated)
- Leader AP
- FAT AP

03 NCE On-Premise with or without WAC



Single Enterprise Private CloudCampus platform



What's new in Wi-Fi 7 AP family: Flagship indoor & outdoor APs | Spycam-detecting AP | On-train AP

Indoor settled Wi-Fi 7 APs (802.11be)



AirEngine 8776-X7F-T

- Device rate: 26.56 Gbps
- NSS: 4^{2.4G}+4^{5G}+4^{5/6G}+4^{6G}/2^{2.4G}+4^{5G}+2^{5G}+4^{6G}+4^{6G/scan}
- BLE 6.0, external IoT expansion via USB
- 2 x 10GE RJ45, MACsec supported



NEW

AirEngine 8776-X7THP-T

- Device rate: 18.67 Gbps
- NSS: 4^{2.4G}+4^{5G}+4^{6G}
- Built-in dynamic-zoom smart antennas
- BLE 6.0, external IoT expansion via USB
- 1 x 10GE RJ45, **1 x 10GE SFP+**, 1 x GE RJ45, MACsec supported



AirEngine 8776-X7T-T

- Device rate: 18.67 Gbps
- NSS: 4^{2.4G}+4^{5G}+4^{6G}
- Built-in dynamic-zoom smart antennas
- BLE 6.0, external IoT expansion via USB
- **2 x 10GE RJ45**, MACsec supported



AirEngine 8776-X7ET-T

- Device rate: 18.67 Gbps
- NSS: 4^{2.4G}+4^{5G}+4^{6G}
- External antennas
- BLE 6.0, external IoT expansion via USB
- **2 x 10GE RJ45**, MACsec supported



AirEngine 8776-X6THP

- Device rate: 12.9 Gbps
- NSS: 4^{2.4G}+4^{5G}+4^{5G}
- Built-in dynamic-zoom smart antennas
- BLE 6.0, external IoT expansion via USB
- 1 x 10GE RJ45, **1 x 10GE SFP+**, 1 x GE RJ45, MACsec supported



AirEngine 8771-X1T

- Device rate: 18.67 Gbps
- NSS: 4^{2.4G}+4^{5G}+4^{5G/6G}
- Built-in dynamic-zoom smart antennas
- BLE 5.2, external IoT expansion via USB
- 2 x 10GE RJ45, **1 x 10GE SFP+**, MACsec **unsupported**



AirEngine 6776-58TI

- Device rate: 7.89 Gbps
- NSS: 2^{2.4G}+4^{5G}+2^{6G}/4^{2.4G}+4^{5G}
- BLE 5.4, built-in dual PCIe IoT card slots, built-in IoT chip, and external IoT expansion via USB
- 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 6776-X6ETH

- Device rate: 7.89 Gbps
- NSS: 2^{2.4G}+4^{5G}+2^{6G}/4^{2.4G}+4^{5G}
- BLE 5.4, external IoT expansion via USB
- **1 x 10GE SFP+**, 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 6776-X6H

- Device rate: 7.14 Gbps
- NSS: 4^{2.4G}+4^{5G}
- Built-in dynamic-zoom smart antennas
- BLE 5.4, external IoT expansion via USB
- **1 x 10GE SFP+**, 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 6776-57T

- Device rate: 13.66 Gbps
- NSS: 2^{2.4G}+2^{5G}+4^{6G}
- Built-in smart antennas
- BLE 5.2, external IoT expansion via USB
- 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 6776-56TP

- Device rate: 7.89 Gbps
- NSS: 2^{2.4G}+2^{5G}+4^{5G}
- BLE 5.2, external IoT expansion via USB, PoE OUT
- 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 5776-57T

- Device rate: 7.89 Gbps
- NSS: 2^{2.4G}+2^{5G}+2^{6G}
- BLE 5.2, external IoT expansion via USB
- 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 5776-56T

- Device rate: 5.01 Gbps
- NSS: 2^{2.4G}+2^{5G}+2^{5G}
- BLE 5.2, external IoT expansion via USB
- 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 5776-57

- Device rate: 7.20 Gbps
- NSS: 2^{2.4G}+2^{5G}/2^{2.4G}+2^{6G}/2^{5G}+2^{6G}
- BLE 5.2, external IoT expansion via USB
- 1 x 5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 5776-26

- Device rate: 6.45 Gbps
- NSS: 2^{2.4G}+4^{5G}
- BLE 5.4, external IoT expansion via USB
- 1 x 2.5GE RJ45, 1 x GE RJ45, MACsec supported



AirEngine 5773-23H*

- Device rate: 3.57 Gbps
- NSS: 2^{2.4G}+2^{5G}
- BLE 5.2, external IoT expansion via USB
- **1 x 2.5GE SFP**, 1 x GE RJ45



AirEngine 5773-22P*

- Device rate: 3.57 Gbps
- NSS: 2^{2.4G}+2^{5G}
- BLE 5.2, external IoT expansion via USB, PoE OUT
- 1 x 2.5GE RJ45, 1 x GE RJ45













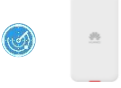





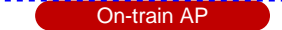


AirEngine 5773-21*

- Device rate: 3.57 Gbps
- NSS: 2^{2.4G}+2^{5G}
- BLE 5.4, external IoT expansion via USB
- 1 x 2.5GE RJ45

6G 6 GHz Wi-Fi Shield Wi-Fi CSI sensing W General-purpose white-box models are provided.

What's new in Wi-Fi 7 AP family: Flagship indoor & outdoor APs | Spycam-detecting AP | On-train AP

Outdoor Wi-Fi 7 APs (802.11be)				Wi-Fi 7 wall plate APs (802.11be)		
 <p>AirEngine 8776I-X6ETHP-T</p> <ul style="list-style-type: none"> • Device rate: 18.67 Gbps • NSS: 2^{2.4G}+4^{5G}+4^{5G/6G} • External antennas, BLE 6.0, NearLink SLE 1.0, GPS, and BeiDou • 1 x 10GE SFP+, 1 x 10GE RJ45, 1 x GE RJ45, MACsec supported 	 <p>AirEngine 6776I-X6ETH</p> <ul style="list-style-type: none"> • Device rate: 13.66 Gbps • NSS: 2^{2.4G}+2^{5G}+4^{5G/6G} • External antennas • BLE 5.2, external IoT expansion via USB • 1 x 10GE SFP+, 1 x 10GE RJ45, 1 x GE RJ45, MACsec supported 	 <p>AirEngine 6776I-X7TH</p> <ul style="list-style-type: none"> • Device rate: 13.66 Gbps • NSS: 2^{2.4G}+2^{5G}+4^{5G/6G} • Built-in omnidirectional antennas • BLE 5.2, external IoT expansion via USB • 1 x 10GE SFP+, 1 x 10GE RJ45, 1 x GE RJ45, MACsec supported 	 <p>AirEngine 6776I-X6TH</p> <ul style="list-style-type: none"> • Device rate: 13.66 Gbps • NSS: 2^{2.4G}+2^{5G}+4^{5G/6G} • Built-in directional antennas • BLE 5.2, external IoT expansion via USB • 1 x 10GE SFP+, 1 x 10GE RJ45, 1 x GE RJ45, MACsec supported 	 <p>AirEngine 5773-25HW*</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • BLE 5.2, external IoT expansion via USB • 1 x 2.5GE SFP, 1 x 2.5GE RJ45, 8 x GE RJ45 	 <p>AirEngine 5773-23HW*</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • BLE 5.2, external IoT expansion via USB • 1 x 2.5GE SFP, 4 x GE RJ45 	 <p>AirEngine 5773-21HW</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • 1 x 2.5GE SFP, 4 x GE RJ45
 <p>AirEngine 5776I-X6EH</p> <ul style="list-style-type: none"> • Device rate: 7.20 Gbps • NSS: 2^{2.4G/5G}+4^{5G} • External antennas • BLE 5.2, external IoT expansion via USB • 1 x 10GE SFP+, 1 x 2.5GE RJ45, MACsec supported 	 <p>AirEngine 5776I-X7H</p> <ul style="list-style-type: none"> • Device rate: 6.45 Gbps • NSS: 2^{2.4G}+4^{5G} • Built-in omnidirectional antennas • BLE 5.2, external IoT expansion via USB • 1 x 10GE SFP+, 1 x 2.5GE RJ45, MACsec supported 	 <p>AirEngine 5776I-X6H</p> <ul style="list-style-type: none"> • Device rate: 6.45 Gbps • NSS: 2^{2.4G}+4^{5G} • Built-in directional antennas • BLE 5.2, external IoT expansion via USB • 1 x 10GE SFP+, 1 x 2.5GE RJ45, MACsec supported 	 <p>AirEngine 5773I-21</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • Built-in omnidirectional antennas • BLE 5.2 • 1 x 2.5GE RJ45 • IP65 	 <p>AirEngine 5773-23WP*</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • BLE 5.2, external IoT expansion via USB, PoE OUT • 1 x 2.5GE RJ45, 5 x GE RJ45 	 <p>AirEngine 5773-23W</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • BLE 5.4, external IoT expansion via USB • 1 x 2.5GE RJ45, 4 x GE RJ45, 2 x RJ45 pass-through ports 	
Scenario-specific Wi-Fi 7 APs (802.11be)						
 <p>AirEngine 6776-26HD</p> <p>Intranet</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • BLE 6.0 • 1 x 2.5GE RJ45, 1 x 10GE SFP+, 1 x USB <p>Extranet</p> <ul style="list-style-type: none"> • Device rate: 3.57 Gbps • NSS: 2^{2.4G}+2^{5G} • BLE 5.2 • 1 x 2.5GE RJ45, 1 x 2.5GE SFP <p>Others</p> <ul style="list-style-type: none"> • 2 x GE RJ45 (PoE OUT, IoT expansion) • 8 x SMA Wi-Fi radio signal ports • 2 x SMA IoT base station radio signal ports 		 <p>AirEngine 6776-X7TH</p> <ul style="list-style-type: none"> • Device rate: 13.66 Gbps • NSS: 2^{2.4G}+2^{5G}+4^{5G/6G} • BLE 6.0, external IoT expansion via USB • 1 x 10GE RJ45, 1 x 5GE RJ45, 1 x GE RJ45 		 <p>AirEngine 5776I-X7EH</p> <ul style="list-style-type: none"> • Device rate: 11.53 Gbps • NSS: 2^{2.4G/5G}+ 2^{5G/6G} or 4^{5G} or 4^{6G} • BLE 5.2 • 1 x 10GE M12 electrical port, 1 x GE M12 electrical port 		
 <p>Zero-roaming AP</p>		 <p>Spycam-detecting AP</p>		 <p>On-train AP</p>		

VIP Lane technology: Exclusive E2E VIP user experience assurance, always-optimal experience, zero data leakage

Service challenges



- 90% of VIP users suffered poor network experience.
- Difficult to resolve complaints



- High-value confidential data
- Significant network security risks



POS machine



AGV

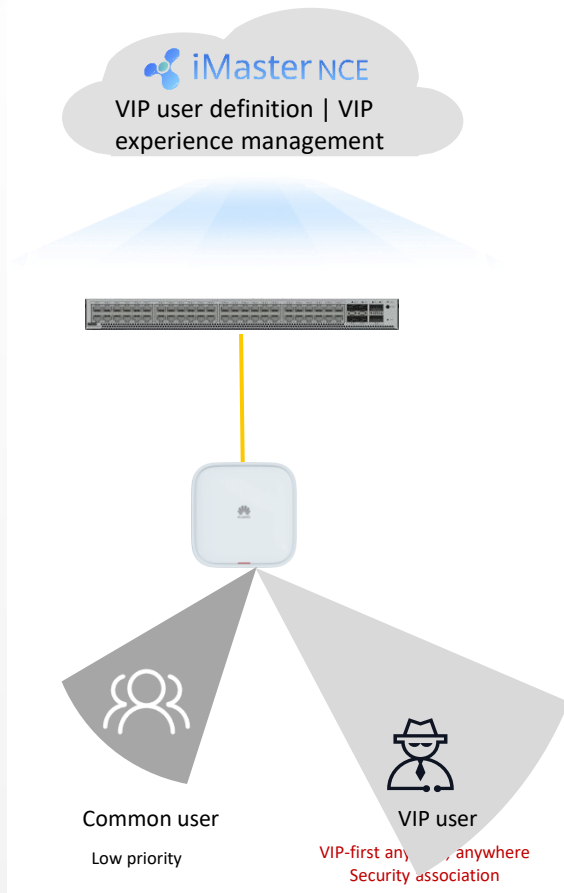


Conference terminal



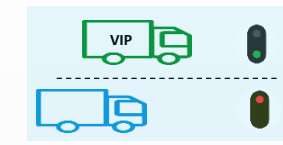
PDA (image reading)

- Hard to guarantee key terminal services



VIP user assurance: VIP-first anytime, anywhere

① **VIP Lane technology**
VIP-first anytime, anywhere



Unique VIP FastPass for preferential resource preemption

Latency ↓ **75%**
Busy-time latency: < 50 ms vs. > 200 ms (industry)

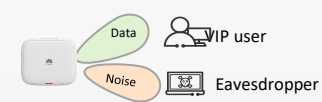
② **VIP targeted optimization**
Signal enhancement for VIP users



Precise ranging, **VIP per-packet power control**

Bandwidth ↑ **30%**
vs. none (industry)

③ **VIP dedicated security**
Wi-Fi Shield for VIP users



0 information leakage
vs. none (industry)

④ **Proactive VIP care**

Full visibility across wireless and wired sides for VIP users



100% journey visibility
Fault prediction vs. none (industry)

Ultra-high security: Huawei-only Wi-Fi Shield technology, zero eavesdropping and zero cracking

Application scenario



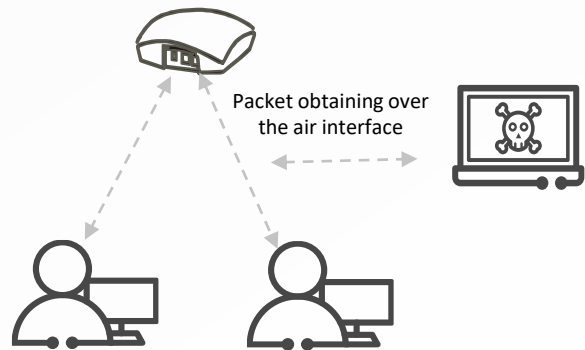
Users dare not to connect bank apps to Wi-Fi.



Web pages are attacked and tampered with.

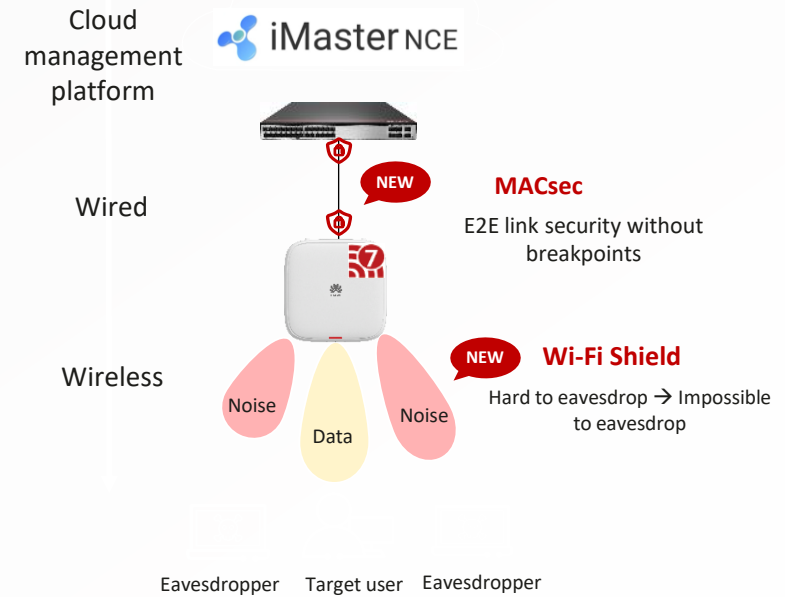


Unauthorized users conduct password cracking and intrusion.



Brute force cracking

Huawei's unique **Wi-Fi Shield** technology



Wi-Fi Shield for key users: Impossible for eavesdropping, data capture, or brute force cracking

[Huawei Campus Network Wi-Fi Shield Technology White Paper](#)

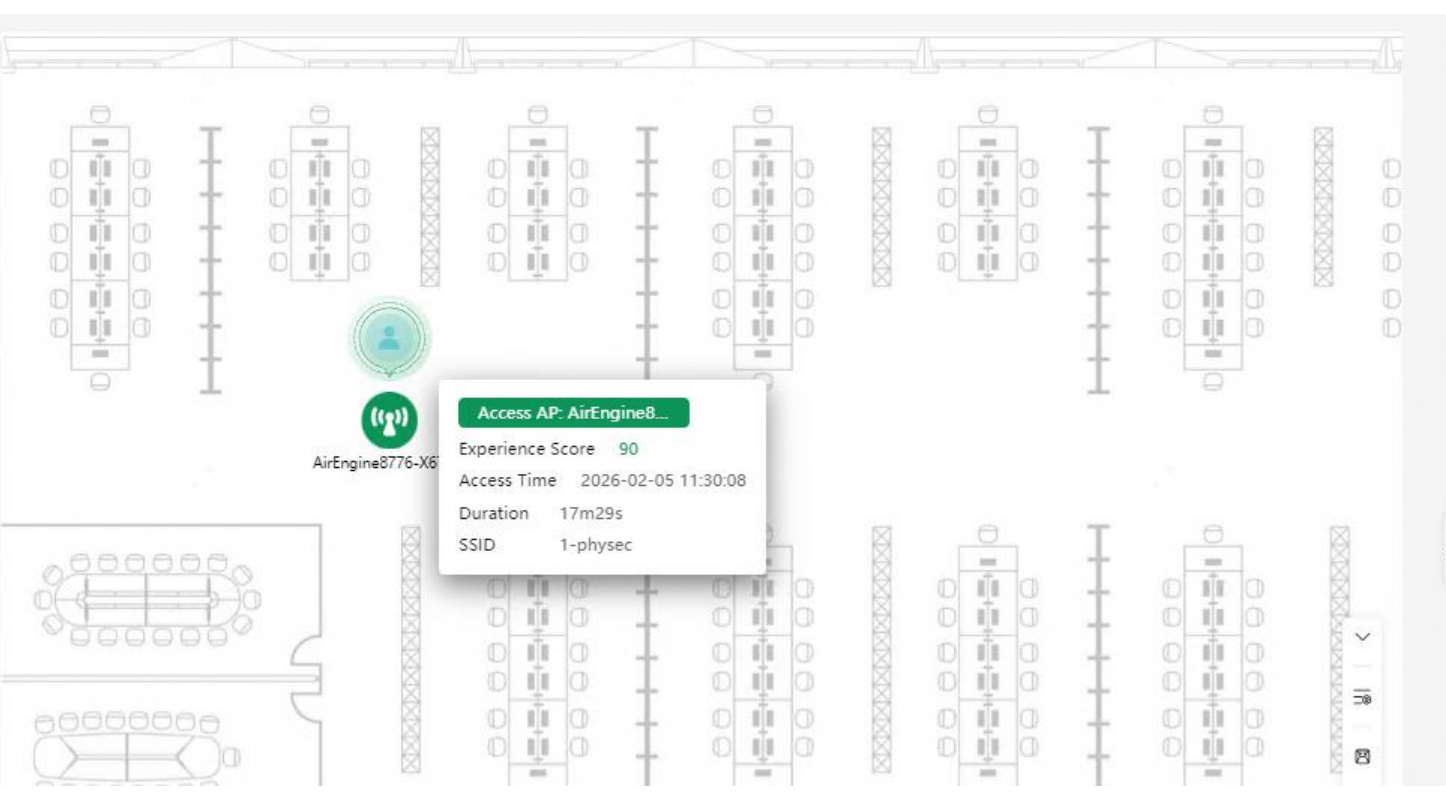
In R25C10, you can visually query info. about Wi-Fi Shield on CampusInsight UIs

Normal view VIP view

Filter

The relationship between multiple query rules of the same dimension is "OR", and the relationship between multiple query rules of different dimensions is "AND".

Client MAC	User Name	Client IP	Poor-Exper...	VIP Client	Access Type	Last Status	Total Experie...	Average Upli...	Average Do...	Experience ...	Total Access ...	Latency(ms)	Packet Loss ...	Site Name	Host Name	PHY Protection ...
6e-03-2d-78-63-3a	6e032d78633a	29.0.29.119, f...	0s	Common Client	Wireless	Success	15m	-40	7.24Kbps	17.79Mbps	1.51MB	15.65	0.02	macsec	OPPO-Reno1...	Protecting



Client Experience Details (2026-02-05 11:30:08)

6e032d78633a 957.44KB Traffic Protected by Wi-Fi Shield

Detail of Journey

MAC Address	IP Address	Access AP(Radio)	Access Time	Duration	VLAN
6e-03-2d-78-63-...	29.0.29.119 fe80::6c03:...	AirEngine8776-X...	2026-02-05 11:30:08	17m29s	2...

Experience Exception Analysis

11:30-11:35

Experience Score **90**

Experience Analysis Model

Signal strength (Network) **-39.80dBm**

Signal strength trend

Legend:

- Poor(Signal strength < -65)
- Medium(-65 <= Signal strength < -55)
- Good(Signal strength > -55)

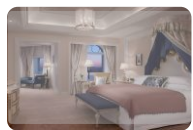
iGuard spycam-detecting AP, safeguarding personal privacy and trade secrets

Workplace



CEO office, business meeting room

Hospitality



Hotel, guesthouse/homestay, sauna, and spa

Other



Off-bank ATM, casino, etc.



A must-have for privacy-sensitive places



2-in-1 AP (Wi-Fi + privacy protection)

Cellular, Wi-Fi, and **SD-card cameras detected**

AirEngine 6776-X7TH

- 1** Accurate | **10x** the industry average hidden-camera detection accuracy
 Accuracy: > 95% (Huawei) vs. < 50% (industry)
- 2** All-round | Cellular (4G/5G), Wi-Fi, and **SD-card cameras detected**
 Rich camera types (Huawei) vs. Limited camera types (industry)
- 3** Always-on | Industry's **only** real-time hidden-camera detection
 24/7 detection (Huawei) vs. Periodic detection (industry)
 Real-time detection and reporting, no high skills required

Pre-WiFi 8 - iCSSR: Unlocking 80 MHz Networking Potential in High-Density

In densely populated areas such as high-density offices & waiting halls, user experience is hard to guarantee.



High population density and high bandwidth requirements



There are blind spots in signal coverage, making network experience difficult to ensure.

The 20 MHz networking bandwidth cannot meet the requirements, and severe co-channel interference occurs in 40 MHz and 80 MHz networking.

Comparison of different networking types

Networking Type	Application Scope	Available Channel (5 GHz)	Co-channel Interference (same distance)
20 MHz	High	19	Low
40M	Medium	9	Medium
80M	Low	4	High



- In 40 MHz networking, co-channel interference is already very obvious, and the network performance **decreases by more than 30%**.
- In the single-user download scenario, the **channel usage may reach 80%**, affecting the use of other users.

Intelligent Frequency Doubling iCSSR

80 MHz networking performance improvement is impressive, **come and test it!**



360-degree live broadcast + VR headset, Virtual Teaching and Training in Clinical Medicine

	U/H	Huawei
AP Number	4	4
Networking	40MHz	80MHz
Network-wide speed	1.8 Gbps	3.2 Gbps
VR headset	14	26

1.7x



During class 200 concurrent terminals/per classroom

	A	Huawei
AP Number	9	9
Networking	40MHz	80MHz
Network-wide rate	1.98 Gbit/s	5.43 Gbit/s

2.7x

Application Scenarios



Library/Cafeteria



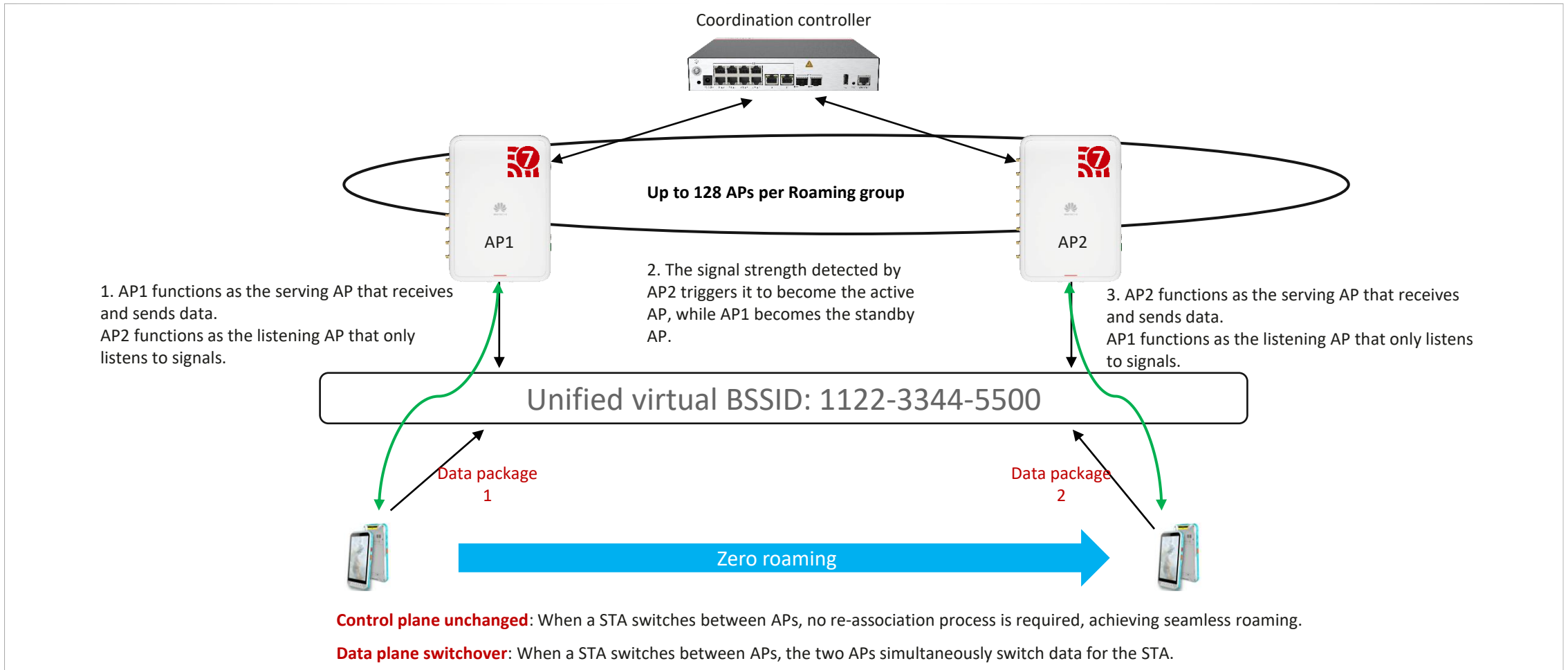
Smart classroom



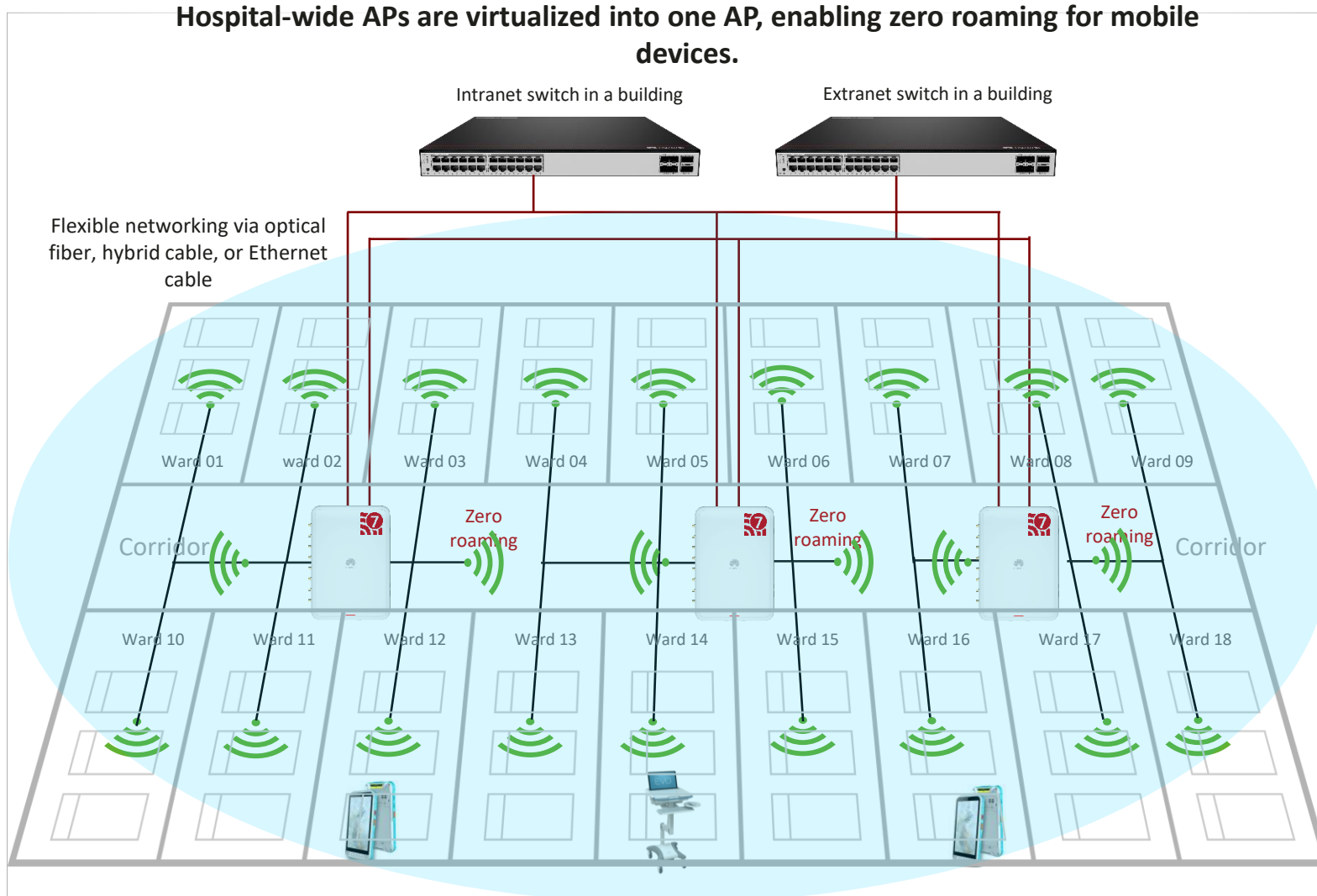
Lecture hall/Amphitheater

ASFN zero-roaming Wi-Fi 7 fundamentals: Innovative roaming handover

STAs seamlessly switch between zero-roaming APs, achieving millisecond-level roaming latency and zero packet loss to ensure uninterrupted mobile services in the hospital.



Zero-roaming Wi-Fi 7 @ healthcare: Hospital-wide seamless mobility, creating an always-on assisted healthcare network



Benefits

Four radios and high bandwidth

Intranet/Extranet **Wi-Fi 7** (2+2+2+2), **7.14 Gbps** data rate

Wide coverage and zero roaming

One AP covers **8 rooms**, supporting unlimited scaling. Hospital-wide APs are virtualized into one AP, enabling **zero roaming** and **zero packet loss** for mobile devices.

Room-level positioning

Innovative feeder power supply and **IoT + Wi-Fi converged AU** enable **Bluetooth room-level positioning** and **4+ always-connected terminals per room**.

Physical isolation of three networks

Intranet, extranet, and IoT isolation and converged deployment, which is secure and reliable, and cuts TCO by **60%**

Zero-roaming Wi-Fi 7: Ideal for warehousing scenarios (bidirectional shuttle)

Warehouse shelf scenario



PDA barcode scanners in use: Low bandwidth and frequent roaming

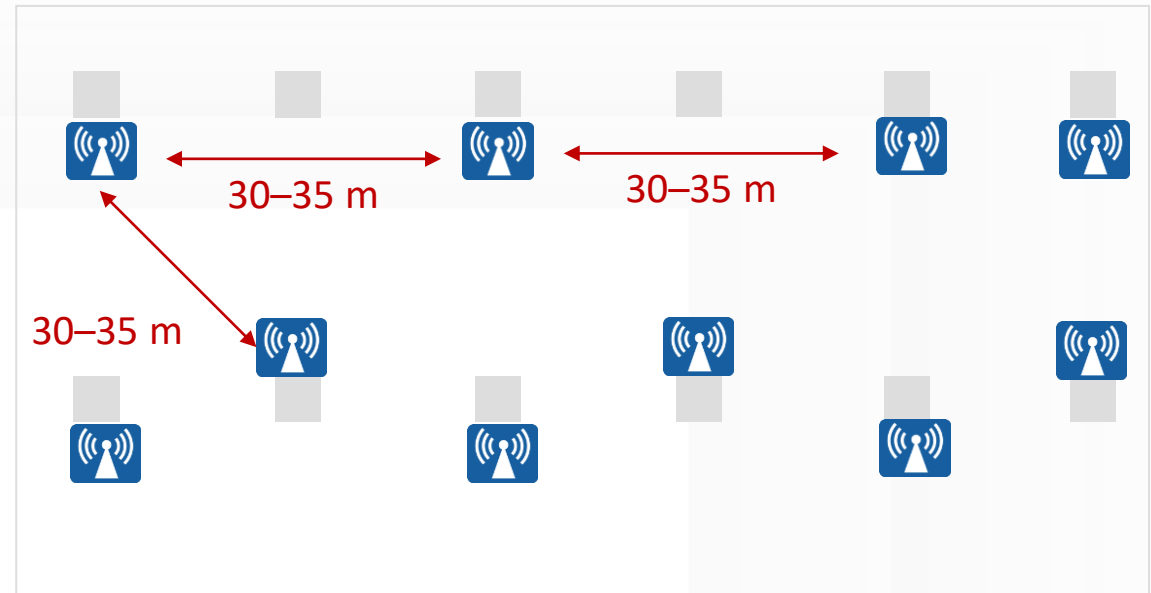
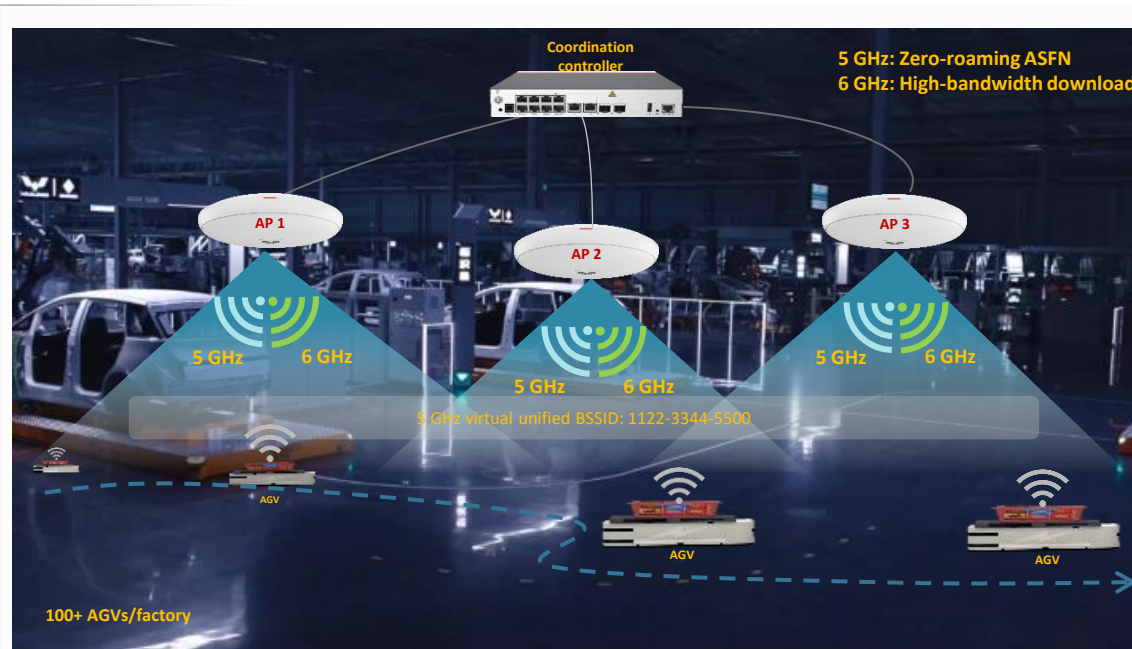


Suggestions for network planning and deployment

- Zero-roaming Wi-Fi 7 APs with external directional antennas are installed at 3-5 m height on both ends of aisles.
- Each AP connects four dual-radio (2.4 GHz & 5 GHz) directional antennas (part number: 27013718), with one antenna covering a single aisle over a recommended 50-meter distance while avoiding shelf penetration.

Zero-roaming Wi-Fi 7: Ideal for manufacturing scenarios (common AP SFN solution)

Production & manufacturing scenarios



Floor height of 6–12 m, without shelves

- No shelves, higher AP installation demands, and common APs required for coverage
- A large number of AGVs, low data transmission bandwidth, frequent roaming, and sensitive to packet loss

Suggestions for network planning and deployment

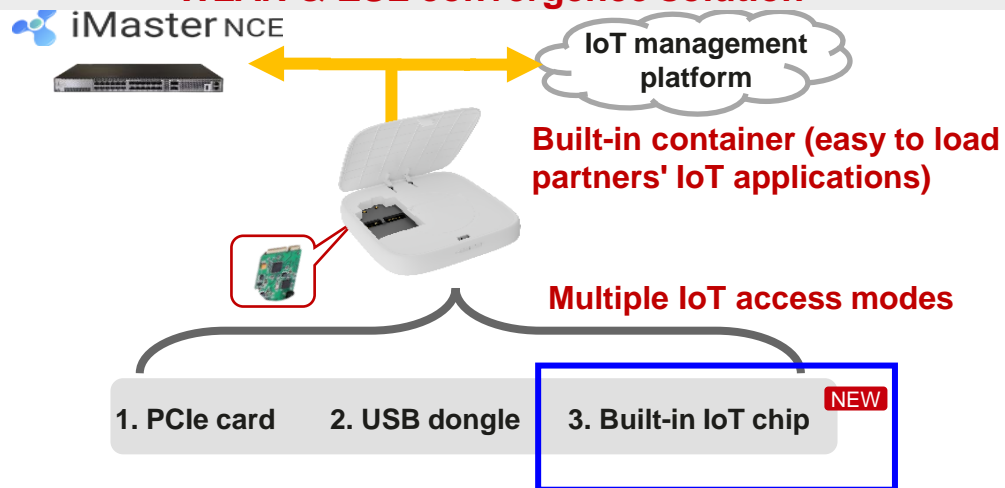
- In areas without shelves, indoor triple-radio APs supporting SFN (**x776 series APs** such as AirEngine 6776-56TP) are recommended. They can be installed onto **beams**, with a spacing of 30 m to 35 m between APs.
- Configure the APs to operate in triple-radio mode: AGVs exclusively use one radio (preferably high-frequency) of APs with the same channel configured and SFN enabled. The remaining radios can be automatically optimized to serve other devices.

IoT convergence: Lower network CAPEX with the ESL solution

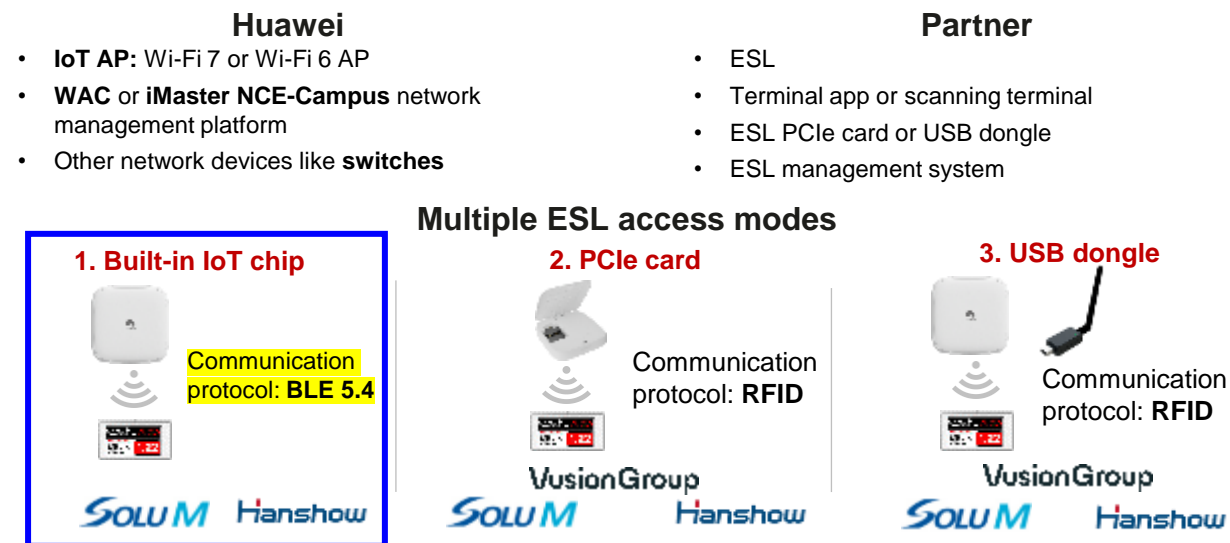
ESL application scenarios and benefits



WLAN & ESL convergence solution



Solution components



Benefits & customer cases

	Built-in IoT Module + Container	USB Dongle	PCIe Card	Independent Base Station (Not Integrated)
Equipment cost	Built-in IoT Bluetooth module, no need for card insertion (better)	USB dongle purchased additionally	PCIe card purchased additionally	Base station purchased additionally
Onsite installation	Onsite installation not required (better)	Onsite installation required	Onsite installation required	Independent cabling and installation
O&M cost	Card-free, low failure rate (better)	Easy to loosen and fall off, onsite repair/replacement required	Onsite replacement required in the case of faults	Onsite independent replacement required in the case of faults

IoT convergence: Lower costs and higher efficiency with the asset management solution

Pain points in enterprise asset management

Low manual stocktaking efficiency



Low efficiency in asset stocktaking (3 months to count 40,000 items), and difficulty in performing big data analysis on a single-node system

Uncontrollable asset status



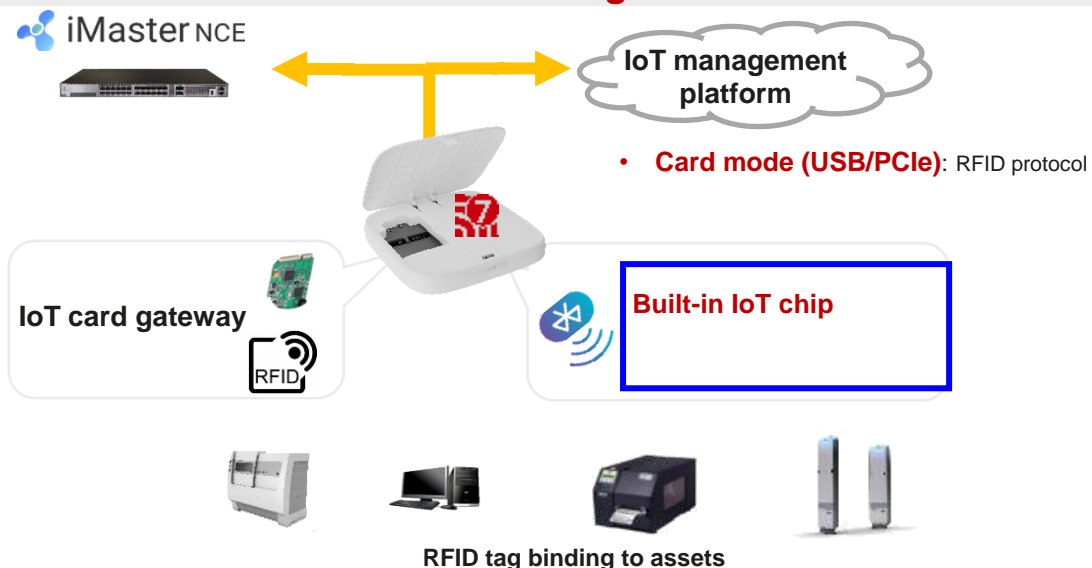
30%+ of assets are lost or not recorded. Valuable items cannot be tracked.

Lack of full lifecycle management



Asset status is invisible, and full lifecycle management cannot be implemented.

WLAN asset management solution



Solution components

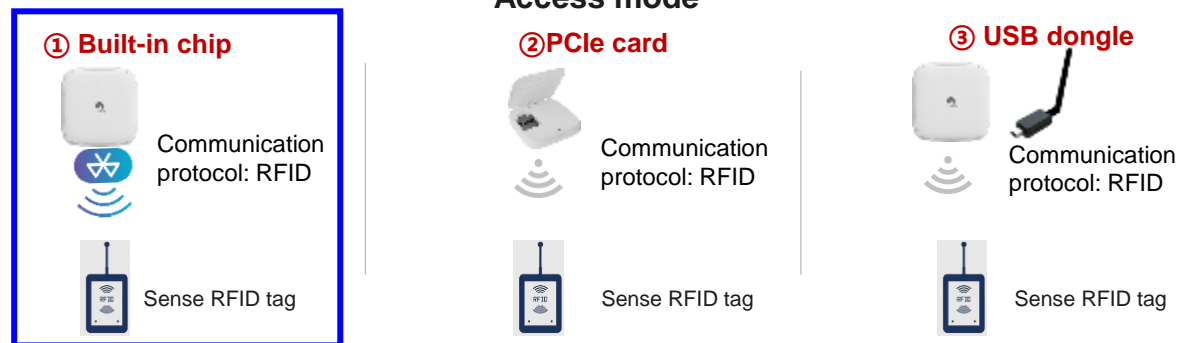
Huawei

- **IoT AP:** Wi-Fi 7 or Wi-Fi 6 AP
- **WAC or NCE-Campus** network management platform
- Other network devices such as **switches**

Partner

- Sense IoT card (PCIe/USB)
- RFID tag
- IoT management system

Access mode



IoT convergence: Interconnection with ASSA ABLOY door locks, building smart, secure hotels

Industry trends & background

Trend: In recent years, the Zigbee protocol has become the preferred intelligent door lock protocol for high-star hotels due to its advantages such as reliability, long distance, low power consumption, and high security. ASSA ABLOY (a joint venture between ASSA in Sweden and Abloy in Finland) holds the largest market share in the Middle East.

No.1
Door lock in Middle East

80% of the hotel market

Customer requirements

Intelligent



Hotel door locks are connected to APs through Zigbee, supporting remote programming and control.

Efficient



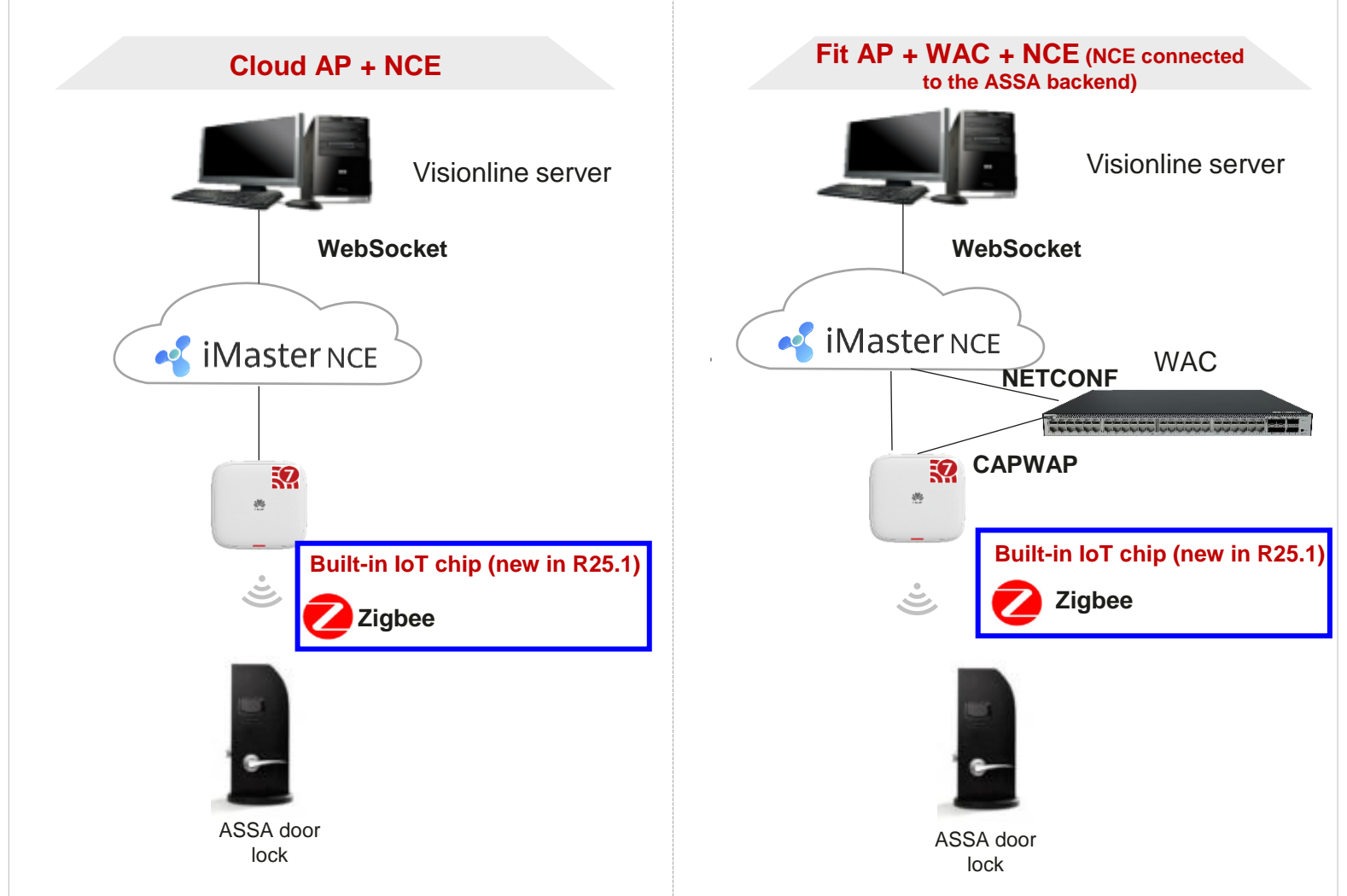
Room checkout or change is available without card replacement, supporting door lock control programming by the administrator.

Secure



Unauthorized door opening triggers a door lock alarm, which is immediately detected by the administrator.

ASSA ABLOY Zigbee door lock solution

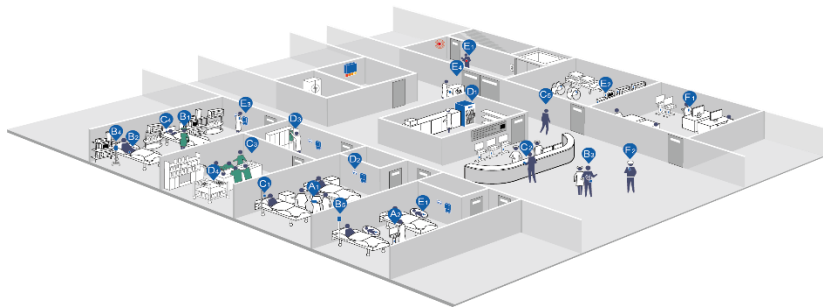


HUAWEI WATCH D2 & Wi-Fi convergence solution

—target scenarios (Healthcare & wellness)

Scenario challenges

Numerous issues with the "wrap-around" contact and tracing for vital sign monitoring with advanced precision instruments



Pain points in nursing

Electrode patches and straps, poor patient comfort



Numerous traditional monitoring cables, restricting patient mobility



Pain points in operation management

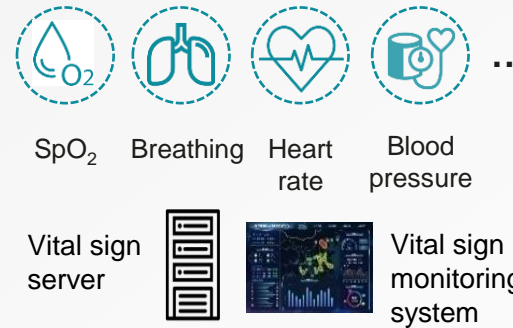
Low efficiency of manual data recording, isolated data lacking integration



Bulky and expensive traditional equipment, insufficient emergency equipment reserves



Solution



Easy to wear and good user experience

Equipped with Wi-Fi/Bluetooth functionality, wireless, unrestricted activity

24/7 automatic monitoring without manual recording
 Medical-level monitoring precision, low data error rate
 High data integration

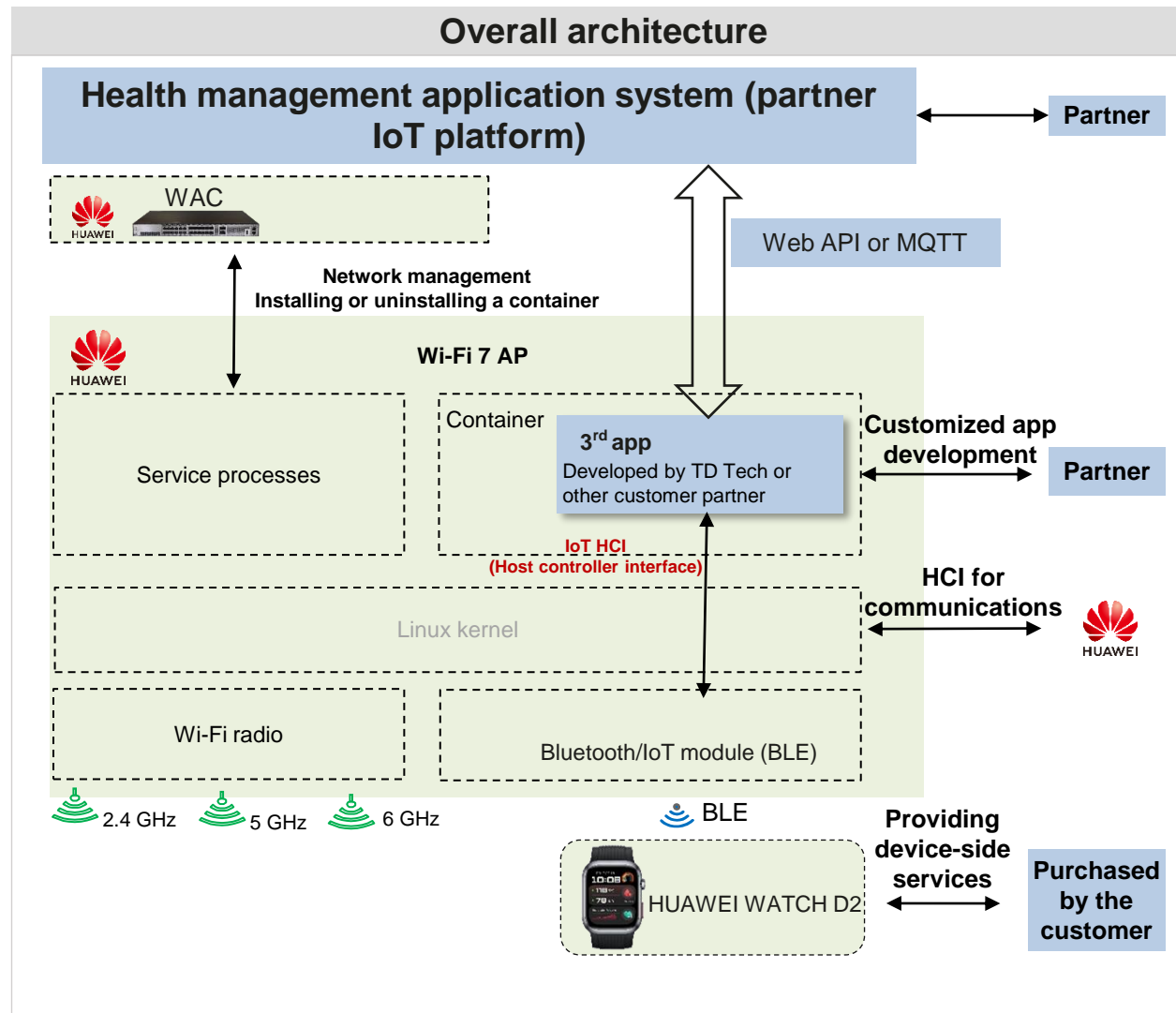
Portable products storable as needed



HUAWEI Watch D2*

WATCH D2: smart watch for medical-level vital sign monitoring

AirEngine Wi-Fi interconnection with WATCH D2 through Bluetooth for visualized patient health management



Solution description

Huawei: AirEngine Wi-Fi AP+WAC

- Bluetooth gateway: built-in Bluetooth, communicating with WATCH D2 through Bluetooth
- Built-in container: used by partners to install third-party apps

TD Tech or customer partner: third-party apps (health apps)

- Controls the associated watch.
- Collects D2 health data using the Bluetooth protocol, receives and converts Ethernet packets, and reports them to the application platform.

TD Tech or customer partner: health application platform
 Visualized health management application system & watch network management system

Examples of health data reported by WATCH D2

Latest heart rate
Historical heart rate data on the wearable device
Real-time heart rate
Awake/asleep state/Daily sleep statistics
Instantaneous oxygen saturation
Body temperature, skin temperature
Blood pressure
SOS event alert
SpO ₂ measurement

Thank you.