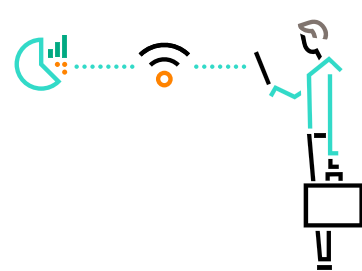



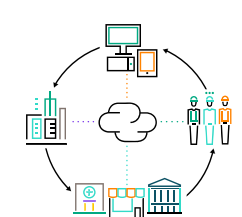
Wi-Fi 6 vs Wi-Fi 6E



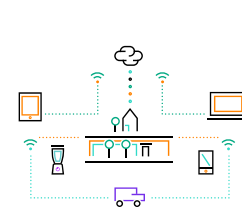
Today's networks are limited by available spectrum. As organizations increase the use of bandwidth-hungry video, cope with increasing numbers of client and IoT devices, and accelerate cloud adoption, Wi-Fi congestion increases and user experience suffers. Without sufficient capacity, organizations are unable to make use of wider channels to support their low-latency, high-bandwidth applications. Wi-Fi 6E, an extension of the current Wi-Fi 6 standard, more than doubles Wi-Fi capacity with wider channels for lower latency to meet today's needs and future proof your investment.



6.2B
client devices will be in use in 2021¹



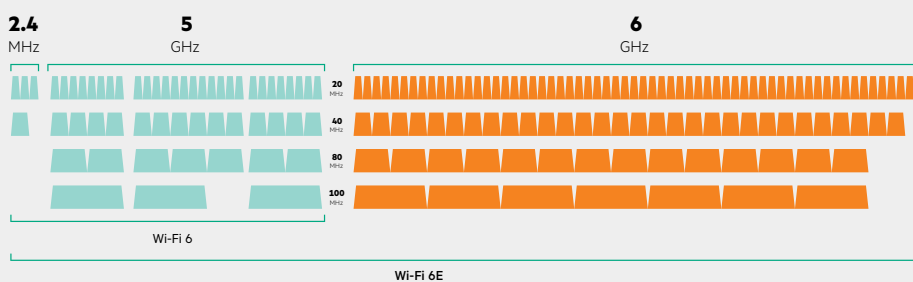
15B+
IoT devices will connect to enterprise infrastructure by 2029²



80%+
Wi-Fi channels deployed in 2020 were 20 MHz or 40 MHz width³

What is Wi-Fi 6E?

Wi-Fi 6E is Wi-Fi 6 extended to the 6 GHz spectrum



Wi-Fi 6

Features:

- ✓ Multi User efficiencies, bi-directional multi-user input/output (MU-MIMO) to remove bottlenecks
- ✓ OFDMA to create carpool lanes to piggyback smaller packets like voice data
- ✓ Target Wake Time (TWT) to allow APs to ping IoT devices at longer intervals & reduce traffic/extend battery life
- ✓ WPA3 and Enhanced Open to enhance guest access security

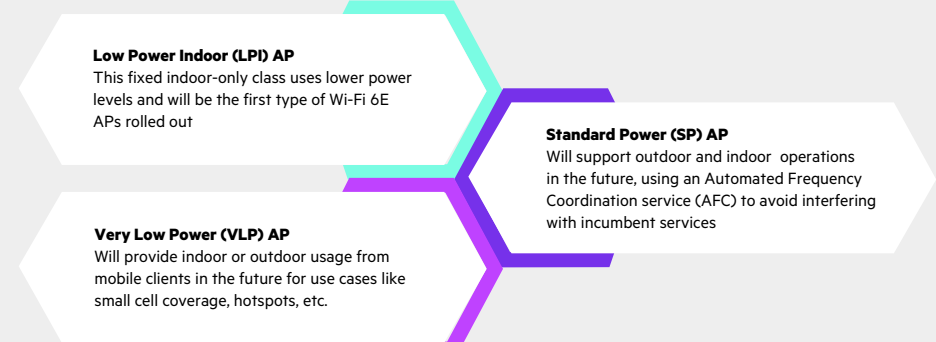
Wi-Fi 6E

Includes all Wi-Fi 6 features, plus:

- ✓ More capacity in the 6 GHz band
- ✓ Wider channels, up to 160 MHz, which are ideal for high-def video and virtual reality
- ✓ No interference from microwaves, etc. because only Wi-Fi 6E enabled devices can use the 6 GHz band

Introducing new device classes


Unlike Wi-Fi 6, Wi-Fi 6E breaks up its devices into 3 classes⁴ for optimized capability




- Low Power Indoor (LPI) AP**
This fixed indoor-only class uses lower power levels and will be the first type of Wi-Fi 6E APs rolled out
- Very Low Power (VLP) AP**
Will provide indoor or outdoor usage from mobile clients in the future for use cases like small cell coverage, hotspots, etc.
- Standard Power (SP) AP**
Will support outdoor and indoor operations in the future, using an Automated Frequency Coordination service (AFC) to avoid interfering with incumbent services

Prepare for the future with Wi-Fi 6E

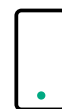
Wi-Fi 6E represents the newest standard—it can be considered Wave 2 of Wi-Fi 6. As more countries adopt Wi-Fi 6E and more client devices are rolled out, Wi-Fi 6E is expected to grow dramatically.



70
countries with 3.4b people are adopting Wi-Fi 6E (May 2021)⁵



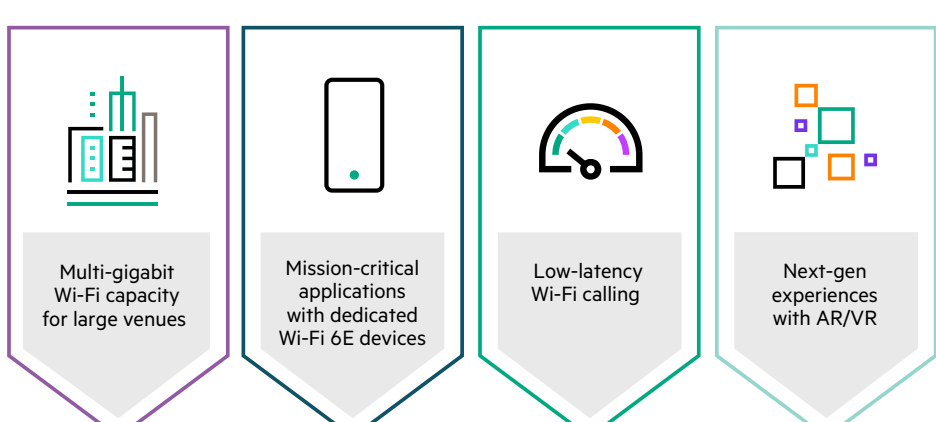
200%
predicted increase in Wi-Fi 6E APs for 2022⁶



350m
350 million Wi-Fi 6E capable devices will be sold in 2022⁷

Expanded use cases

With Wi-Fi 6E, you can future-proof your investment and better support existing and emerging use cases like:

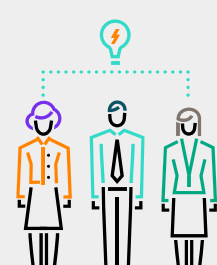


- Multi-gigabit Wi-Fi capacity for large venues
- Mission-critical applications with dedicated Wi-Fi 6E devices
- Low-latency Wi-Fi calling
- Next-gen experiences with AR/VR

The HPE Aruba Networking difference

With our solution, you'll receive all the benefits of Wi-Fi 6E, plus

- Ultra tri-band filtering to prevent interference between the 5 GHz and 6 GHz bands
- Dual HPE Smart Rate ports for high availability data and power
- Advanced security capabilities like unified policy enforcement across wired and wireless
- IoT device inspection
- Wi-Fi optimization for client devices and radio frequencies



Make the right purchase decision. Contact our presales specialists.

Contact us

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