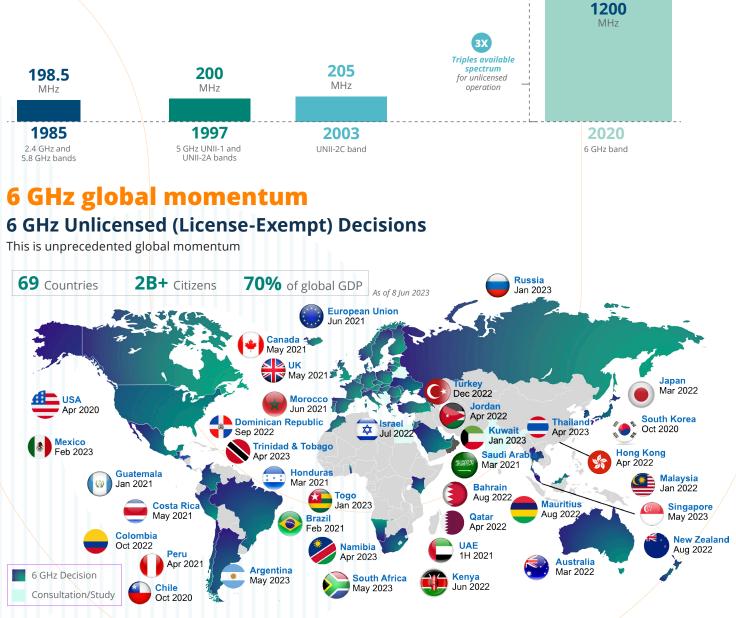


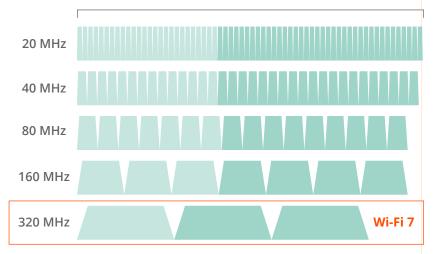
6 GHz Reference Card

6 GHz is the biggest allocation of spectrum in history The biggest unlicensed allocation in history



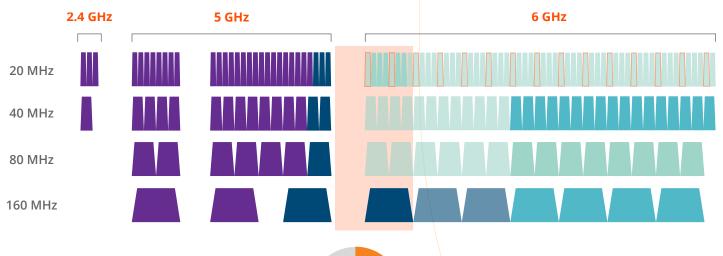
Channels in 6 GHz

Both Wi-Fi 6E (802.11ax) and Wi-Fi 7 (802.11be) will leverage 6 GHz. This allows for more ultra-wide channels (160MHz wide channels in Wi-Fi 6E, 160MHz/320MHz wide in Wi-Fi 7).



Managing 5 GHz/6 GHz channel interference

Traditional filtering solutions sacrifice channels at the lower end of the 6 GHz band.

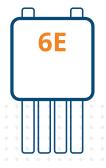


HPE Aruba Networking's ultra tri-band (UTB) filtering uses patented technology to deliver:

>30%

peak throughout improvement in the EU and other countries using the lower half of the 6 GHz band

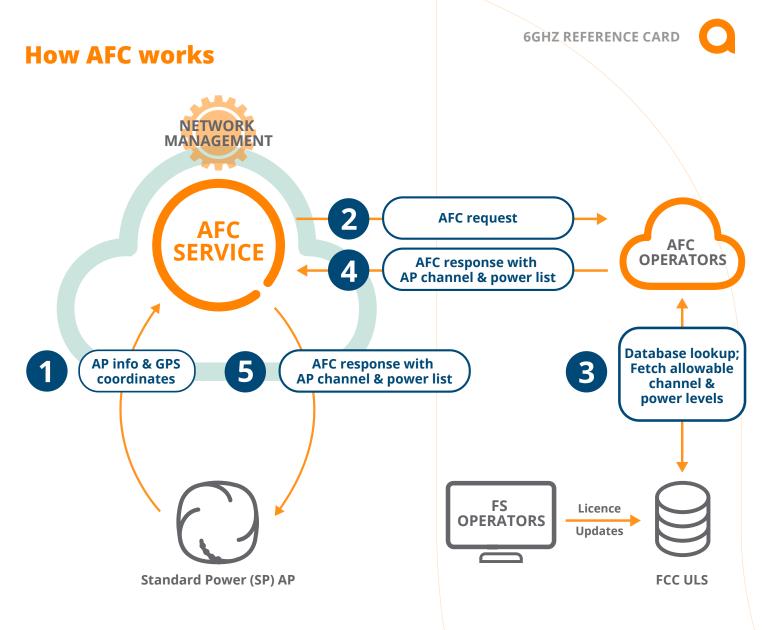
Outdoor 6 GHz use



Although Low Power Indoors (LPI) is already deployed, outdoor use requires Standard Power (for higher power and greater range), which is still under regulatory reviews.

Standard Power (SP) utilizes an Automated Frequency Coordination (AFC) service to protect incumbents in the 6 GHz band. Incumbents include:

- Microwave links: MNOs, Utilities, Public Safety, and Transportation
- Broadcast Auxiliary Service
- Cable Television Relay Service



- AP determines its location and uses a frequency coordination orchestrator service to communicate with the AFC.
- The AFC service computes an incumbent protection contour and authenticates against the FCC database.
- This information is communicated back to the AP to protect incumbent transmissions.
- If the AP is unable to communicate with the AFC, the AP will cease operations in the 6 GHz band until communications are resumed.

Explore 6 GHz at arubanetworks.com/faq/what-is-wi-fi-6e



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