

Themes



- Introducing Wi-Fi Alliance®
- Wi-Fi® then and now
- Next generation Wi-Fi









Wi-Fi Alliance vision:

Connecting everyone and everything, everywhere

When we started

Wi-Fi Alliance members: 6*

Wi-Fi protocol: 802.11b

Max data rate: 11 Mbps

File Downloads

5 MB file: 3 seconds

1GB file: 13 minutes

HD 1080p movie: Unimaginable



Wi-Fi emerged as a valuable key for the next two decades

Key to untethered connectivity

Key to affordable connectivity

Key to wide-ranging innovation

Wi-Fi success continues, underpinned by its inherent strengths











Long-term compatibility

See our whitepaper: Next Generation Wi-Fi: The Future of Connectivity

Today

Wi-Fi Alliance members: 800+

Generation: Wi-Fi 6

Max data rate: 9 Gbps

File Downloads

5 MB file: 0 seconds

1GB file: 6 seconds

HD 1080p movie: ~1 minute

Wi-Fi today: A story told in billions



30 billion

Cumulative products

13+ billion

Products in use

4 billion

New products per year

Source: IDC, 2019

Wi-Fi Impact



Transports more than half all internet data



Contributes \$2+ TRILLION USD per year into global economy



Connects rural and low income communities



Carries majority of mobile subscriber traffic



ENTERPRISE

The default network for most businesses



Foundation for public networks such as WiFi4EU

Wi-Fi also helps address social needs



Bridging the digital divide

Many governments have recognized that bridging the digital divide can improve employment, education, healthcare, and address social issues.

Wi-Fi is frequently the primary way to provide broadband to low income and rural communities.



Public safety

Wi-Fi helps coordination of <u>safety</u> <u>efforts</u> in public places, including beaches, parks, and more.



Disaster recovery

Wi-Fi is increasingly becoming a key part of rescue communications and <u>disaster recovery</u> when other communications systems are down.



Wi-Fi is now *more* than a key to affordable, high-performance connectivity and innovation







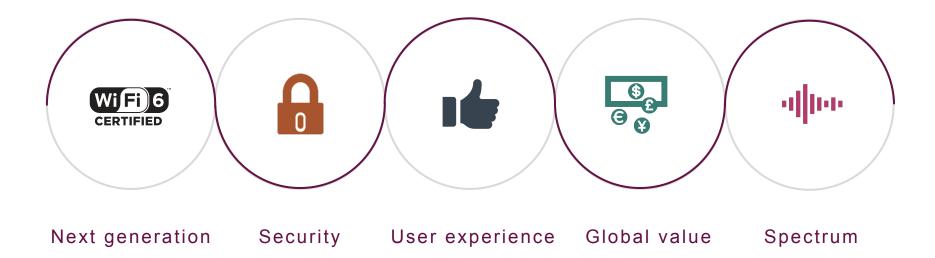


Congratulations!

Your contributions made Wi-Fi the best innovation of the last quarter century!

Wi-Fi Alliance trending areas







Wi-Fi CERTIFIED 6™



Better user experiences in the most demanding environments

- Engineered for a new era of dense and congested environments
- Better capacity, coverage, and performance
- Benefits scale with number of network devices
- Power consumption suitable for IoT devices



Certification available in 2019; shipments to surpass 1B by 2022*

*ABI Research 2018

Wi-Fi CERTIFIED 6



Performance in a variety of environments

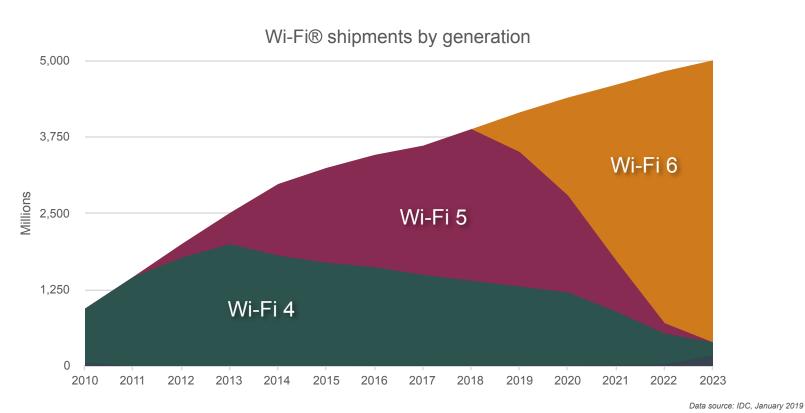
- Home networks: Multiple Ultra HD video streams at full coverage area
- Enterprise networks: Consistent, high performance services even at the edge
- Large event venues: High load ready even among overlapping networks
- Industrial and IoT: Large scale device proliferation, low power requirements



More information:
Wi-Fi 6: High performance, next generation Wi-Fi







Wi-Fi to play a key role in 5G



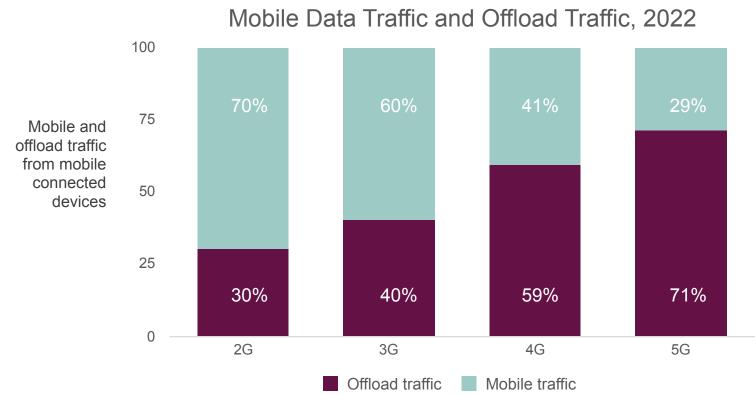
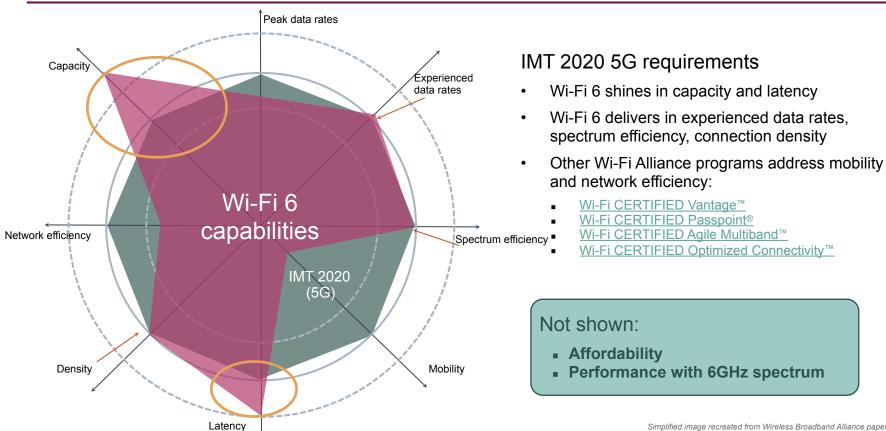


Chart source: Cisco VNI Mobile, 2019

Wi-Fi 6 makes mass scale 5G possible





Simplified image recreated from Wireless Broadband Alliance paper, 2017

New Wi-Fi CERTIFIED Passpoint features recently launched



Frictionless, secure Wi-Fi access

- Simplified online sign-up drives common provisioning across vendors using a single SSID
- Venue-specific information facilitates relevant venue information alerts user of available services
- Expanded enterprise security supported through WPA2™-Enterprise and next generation WPA3™-Enterprise
- Operator-specific policies enable streamlined Terms and Conditions acceptance / experience

More than 2,800 unique Passpoint® certified devices, representing billions of smartphones and Wi-Fi devices



*Research published by Hotel Internet Services, 2019

Passpoint highlights



Wi-Fi CERTIFIED Agile Multiband



Ensures quality connections by responding to changing conditions

- Dynamic monitoring evaluates the best connection possible
- Intelligent steering uses the best band, channel, or AP to balance traffic or meet network needs
- Fast transitions improve the user experience with latencysensitive applications such as voice or video



Wi-Fi Agile Multiband™ highlights





Enhanced network connectivity when roaming

- Improved scanning streamlines network discovery
- Reduced overhead enables faster initial authentication
- Efficient transmissions help devices spend less time responding to management traffic and more time moving data



Wi-Fi Optimized Connectivity™ highlights

Summary



- Innovation that improves day-to-day life
- By 2023 \$3.5T and 5B new devices per year globally
- Wi-Fi CERTIFIED 6: better coverage, capacity and performance
- Operator services focus:
 - Passpoint
 - Wi-Fi Agile Multiband
 - Wi-Fi Optimized Connectivity
- Wi-Fi will continue to connect the world in the decades ahead



THANK YOU

Join us to drive the Wi-Fi future

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