



Quint@s Quinze

Meraki Wi-Fi 6E

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The power of the Meraki Platform

Simplifying deployment and IT management



Meraki Full-Stack Portfolio

Cloud Based Solution

3x
larger than
competitor



Meraki Dashboard
(single pane of glass)

Built-in solutions



Tailored solutions



**Custom
Developed**

apps.meraki.io
(buy or build apps)



Tech Partner



Wireless



Switching



SD-WAN and
Security



Gateway



Mobile Device
Management



Environmental Sensors



Cameras

SD-Access

SD-WAN, SASE

IOT

Meraki platform: 23 billion touchpoints every week

The largest cloud platform in networking, architected for scale



600,000+
customers



10+ million active
Meraki devices



3.6+ million active
networks

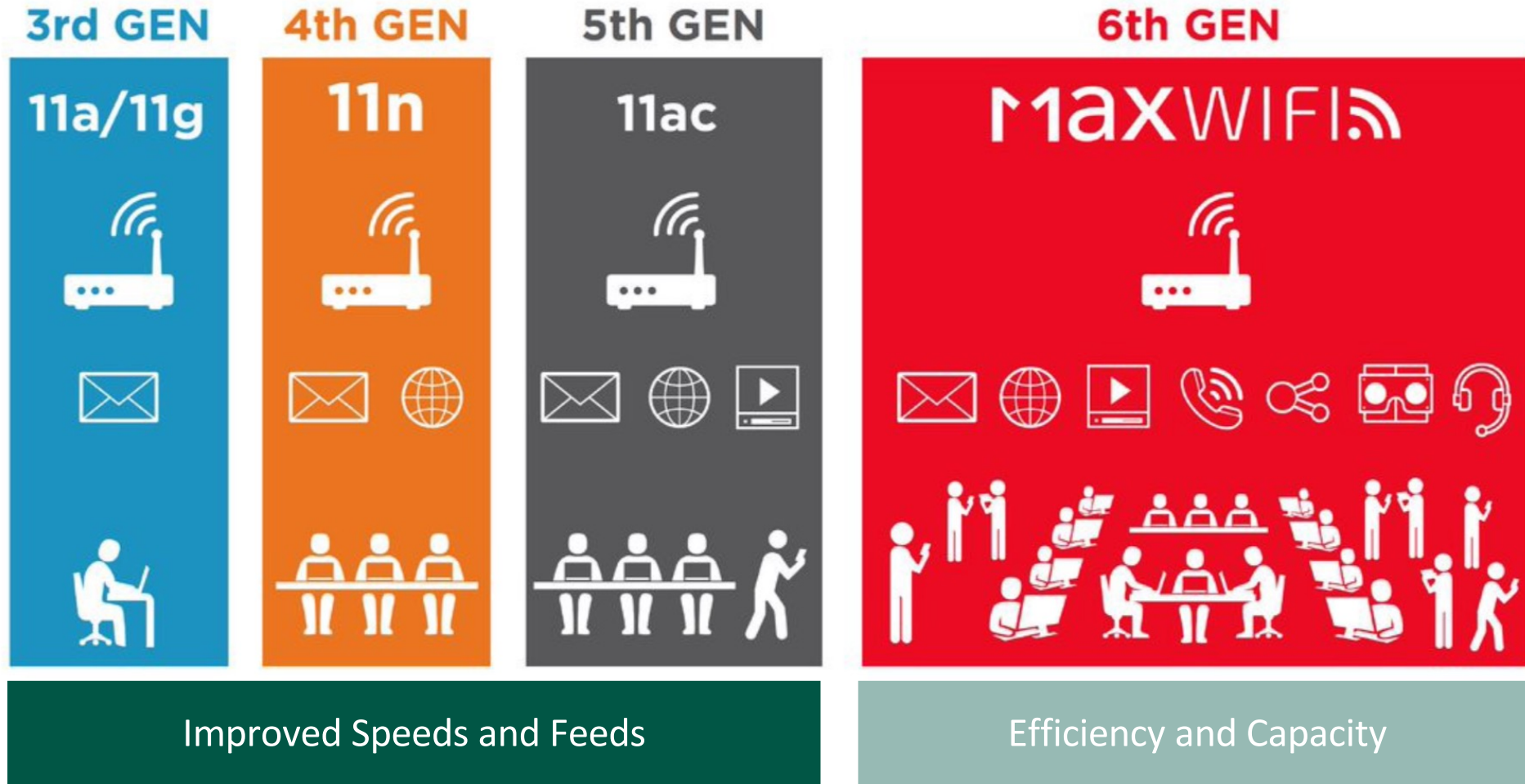


130+ million
connected clients

Wi-Fi Evolution



Wi-Fi Evolution



Wi-Fi 6 – New Features

802.11AX 2.4 and 5 GHz



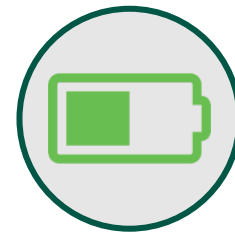
Higher Throughput
Up to 4.8 Gbps



Enhanced Reliability
8x8 deterministic capacity



High Density
High performance and client count

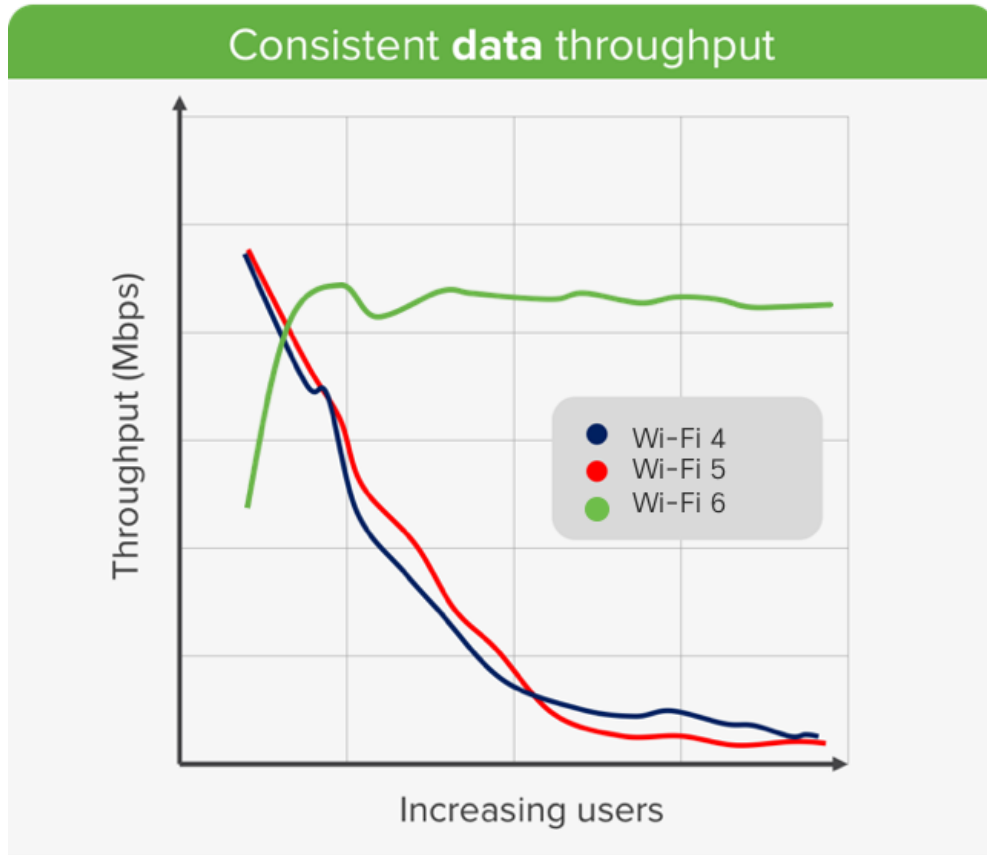


Longer Battery Life
Up to 67%

Wi-Fi 6 supports up to 4X higher aggregate throughput and clients

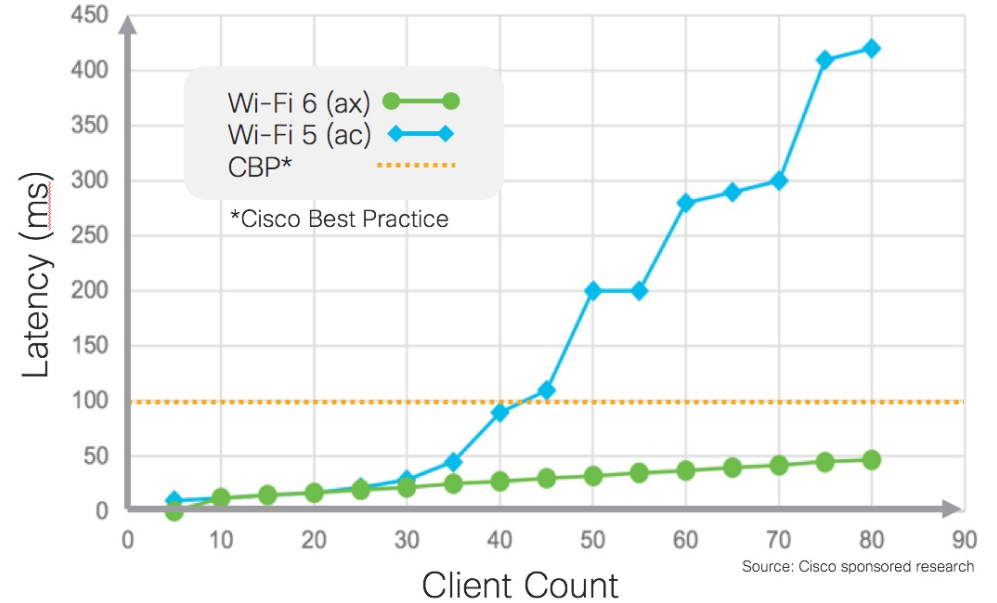
Wi-Fi 6

Better Performance



Source: Cisco sponsored research

Linear voice delay



Source: Cisco sponsored research

Wi-Fi 6E – Spectrum Evolution

New Spectrum 6GHz

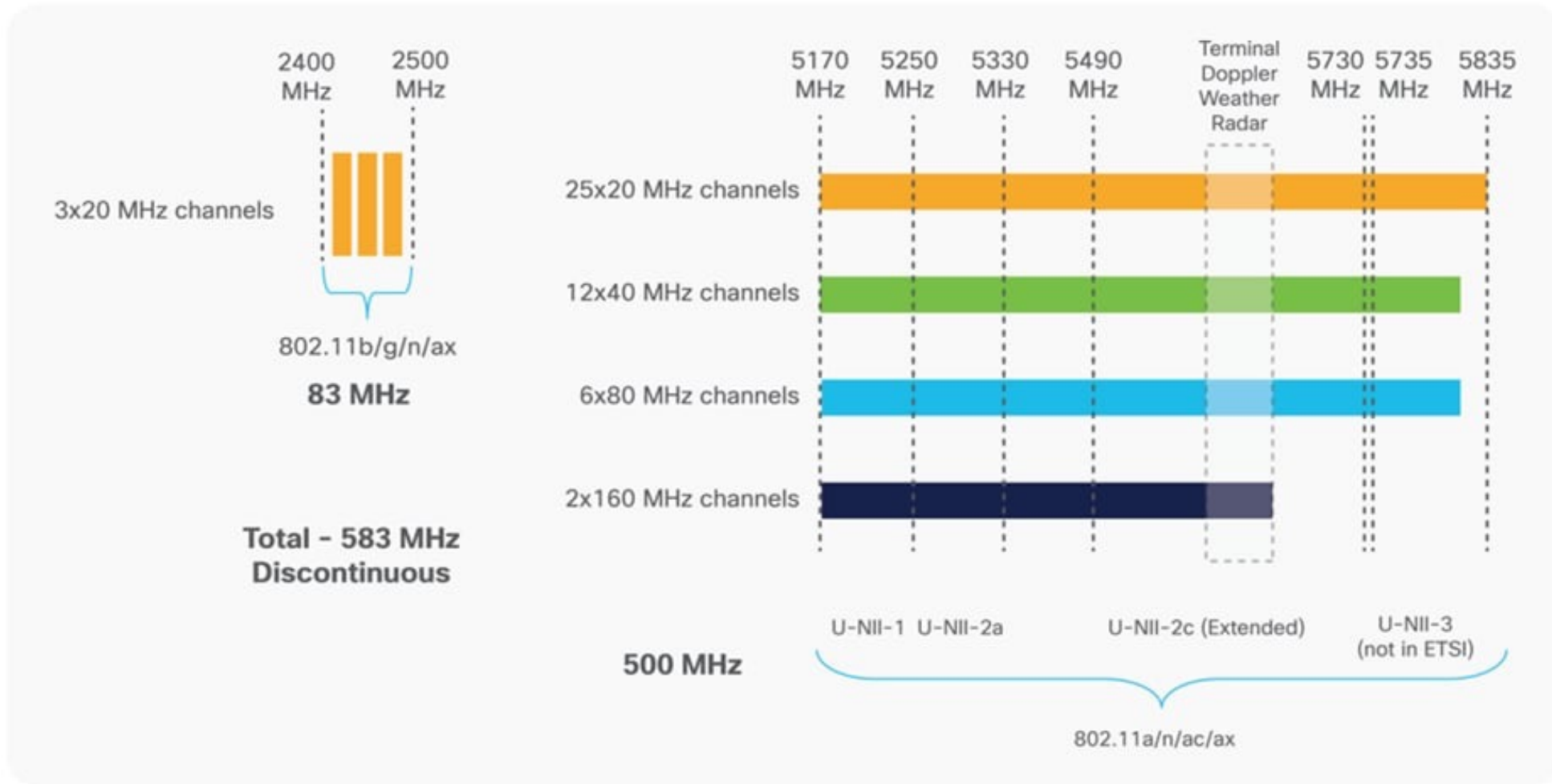
6GHz Spectrum

The major benefit of Wi-Fi 6E is that it has the potential to deliver faster speeds more consistently thanks to how much spectrum Wi-Fi 6E 6GHz devices can access.

More Channels without Legacy Devices

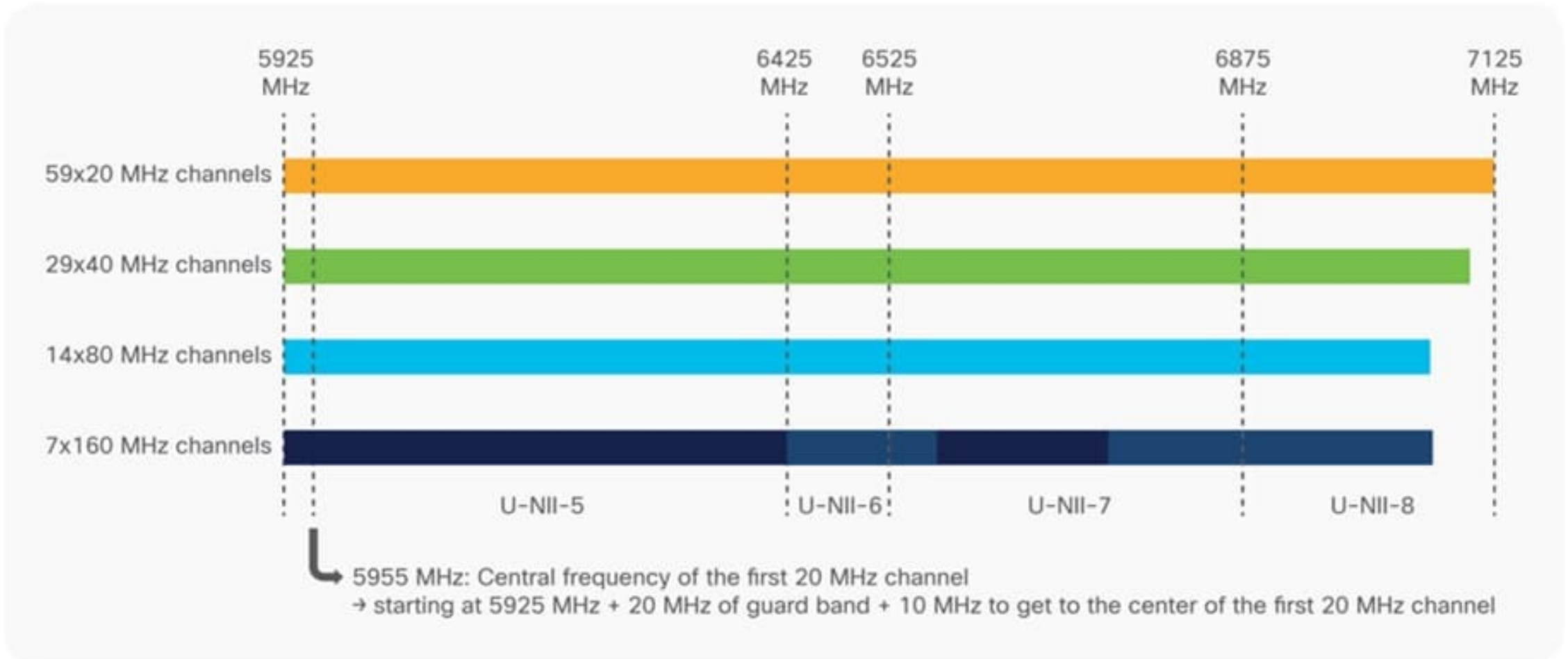
The most impactful difference is that Wi-Fi 6E devices use a dedicated 6E spectrum with up to seven additional 160 MHz channels while Wi-Fi 6 devices share the same congested spectrum — and only two 160 MHz channels — with other legacy Wi-Fi 4, 5, and 6 devices.

Wi-Fi Spectrum Analysis



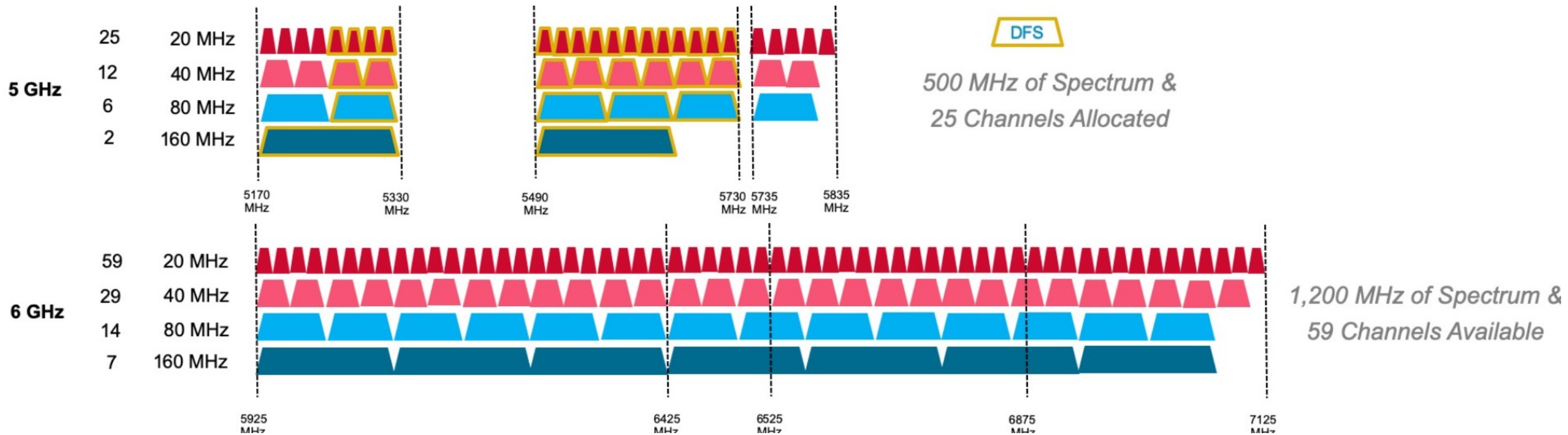
Current 2.4 and 5 GHz Spectrum Wi-Fi

Wi-Fi Spectrum Analysis



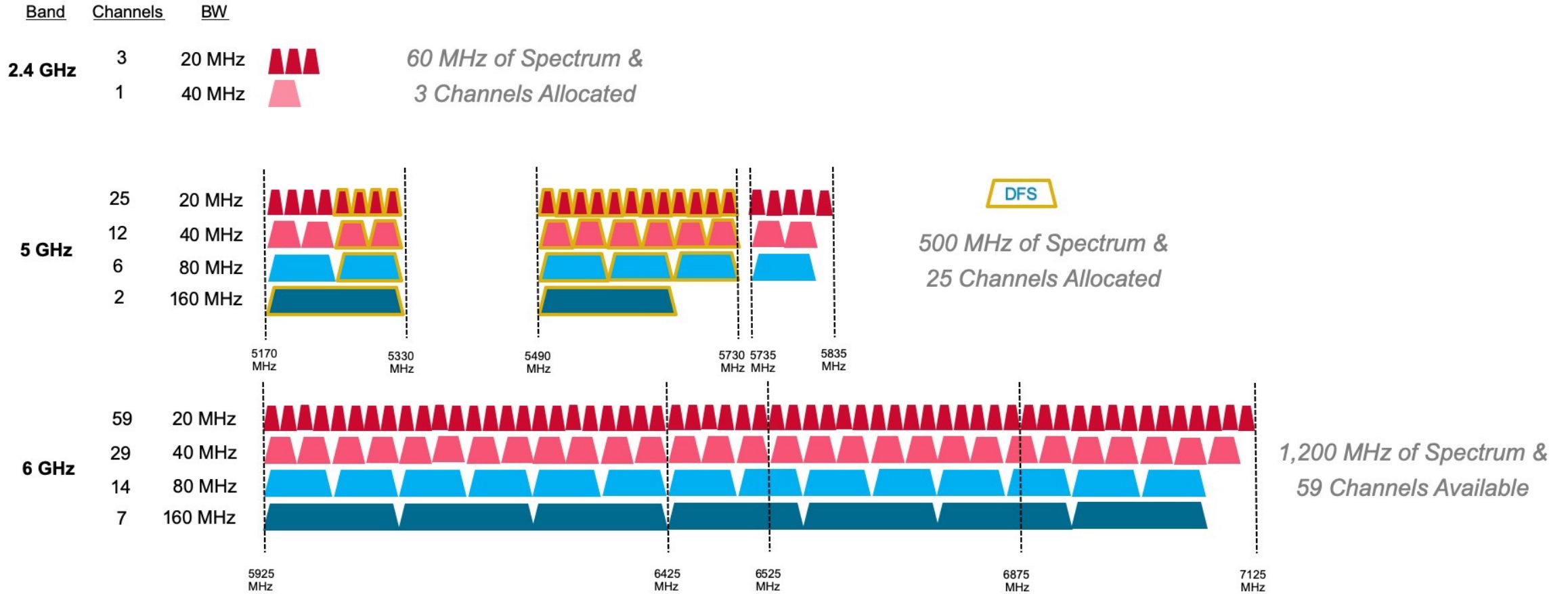
New 6 GHz band with 1200 MHz of contiguous Wi-Fi channel access

Wi-Fi 6E Spectrum Analysis



- 7X more channels than 5GHz (*non-DFS)
- Operational Ch. width of 80MHz vs. 20/40MHz in 5GHz
- Interference free spectrum – lower latency & variations
- No legacy (slow) clients permitted on 6GHz

Wi-Fi 6E Spectrum Analysis



Channel Bandwidth	20 MHz	40 MHz	80 MHz	160 MHz
Wi-Fi 6 MCS 11 2SS	286.8 Mbps	573.5 Mbps	1201 Mbps	2402 Mbps

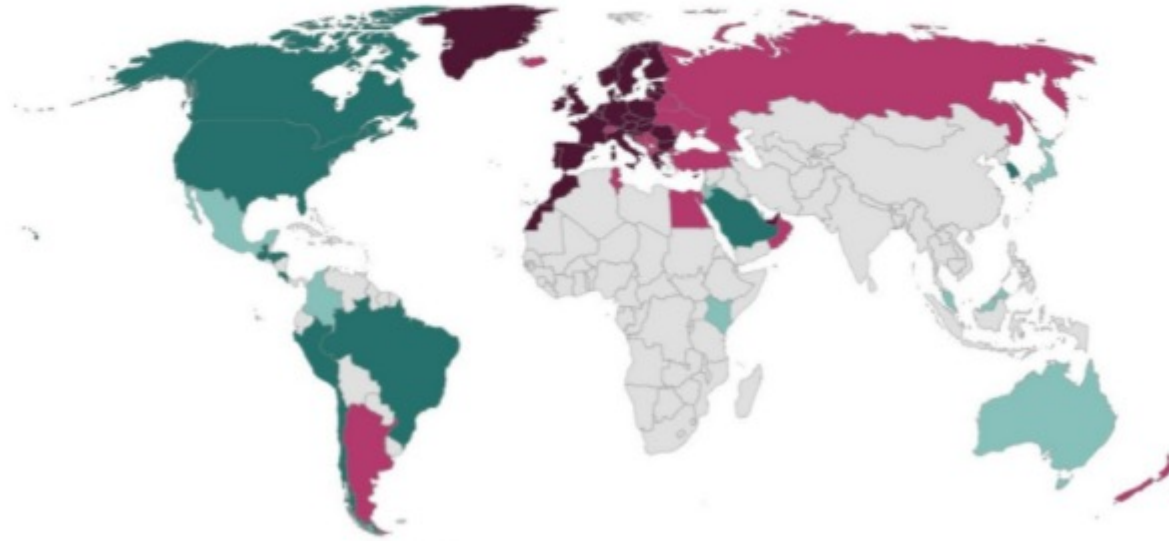
Wi-Fi 6 MCS 11, with two spatial streams, comparing throughput by channel width



Wi-Fi 6E Global Availability

Countries Enabling Wi-Fi 6E

- Adopted 5925-6425 MHz
- Adopted 5925-7125 MHz
- Considering 5925-6425 MHz
- Considering 5925-7125 MHz



Brazil
Feb 2021
1200 MHz

- 1200MHz spectrum - North America, Brazil ...
- 500MHz spectrum - UK, CEPT, EU, UAE ...

Meraki Wi-Fi 6E MR57



Introducing the Meraki MR57

Entering the market with our high-end 6E access point

Feature highlights

- Ultra fast **Wi-Fi 6E** tri-band (**4x4 2.4/5/6 GHz**)
- **Streamlined** deployment with support for Cisco Universal Mount
- **Built-in redundancy with dual PoE** to support critical connectivity use cases
- **6GHz radio can operate in 6 or 5GHz** for dual 5GHz
- **Expanded IoT support** with USB port
- **Minimum requirement is single 802.3at** (USB port disabled)
- Can **combine 2x 802.3at ports** for 802.3bt



Expand IoT use cases

Expand support for additional IoT use cases like ESL with USB add-on



Dual PoE

Dual PoE provides redundancy for zero down time use cases

Cisco Universal Mount support

Mount on existing Cisco universal mount to reduce deployment time

Introducing the Meraki MR57

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Feature highlights

- 8.35 Gbps **tri-radio** aggregate frame rate*.
- **Dual** 5Gbps **mGig** ethernet port support .
- **USB** 2.0 host interface (Type A connector) with 9.5W power budget.
- Enhanced **transmit** power and **receive** sensitivity.

Expand IoT use cases

Expand support for additional IoT use cases like ESL with USB add-on



Dashboard Demo



Thank you!



Daniela Subhia



Cassio Gomes



Lucas Pavanelli