



Lotus®

Soluciones para un mejor futuro...

2020

☎ (55) 6845.0392

✉ contacto@lotusenterprise.mx

🌐 www.lotusenterprise.mx

Unidades estratégicas de negocio





RUCKUS EN CIFRAS

100 000

Consumidores
finales

8,000+

Socios

150

Países

200+

Proveedores
de servicio

Número 1

Wi-Fi para
hotelería

Número 1

Proveedor de
servicio Wi-Fi

INDUSTRIAS OBJETIVO



Educación



Hotelería



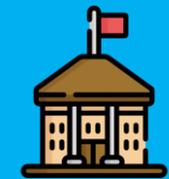
Proveedor de
Servicio



SMB



Enterprise



Gobierno



Networking Industry Key Organizations

- Institute of Electrical and Electronics Engineers



“The IEEE promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro- and information technologies”.

<https://www.ieee.org>



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WLAN Industry Key Organizations

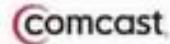
Common IEEE Standards

- IEEE 802.3 – LAN (Ethernet)
- **IEEE 802.11 – WLAN (Wi-Fi)**
- IEEE 802.15 – PAN (Bluetooth)
- IEEE 802.16 – MAN (WiMAX)



WLAN Industry Key Organizations

The Wi-Fi Alliance – some members...



Ruckus Wireless



Nueva Nomenclatura



Generation of network connection	Sample user interface visual	Standard
Wi-Fi 6		802.11ax
Wi-Fi 5		802.11ac
Wi-Fi 4		802.11n
		WiFi 802.11a, WiFi 802.11b Wi-Fi 802.11g

Mantine su nombre



The future is - Converged access points



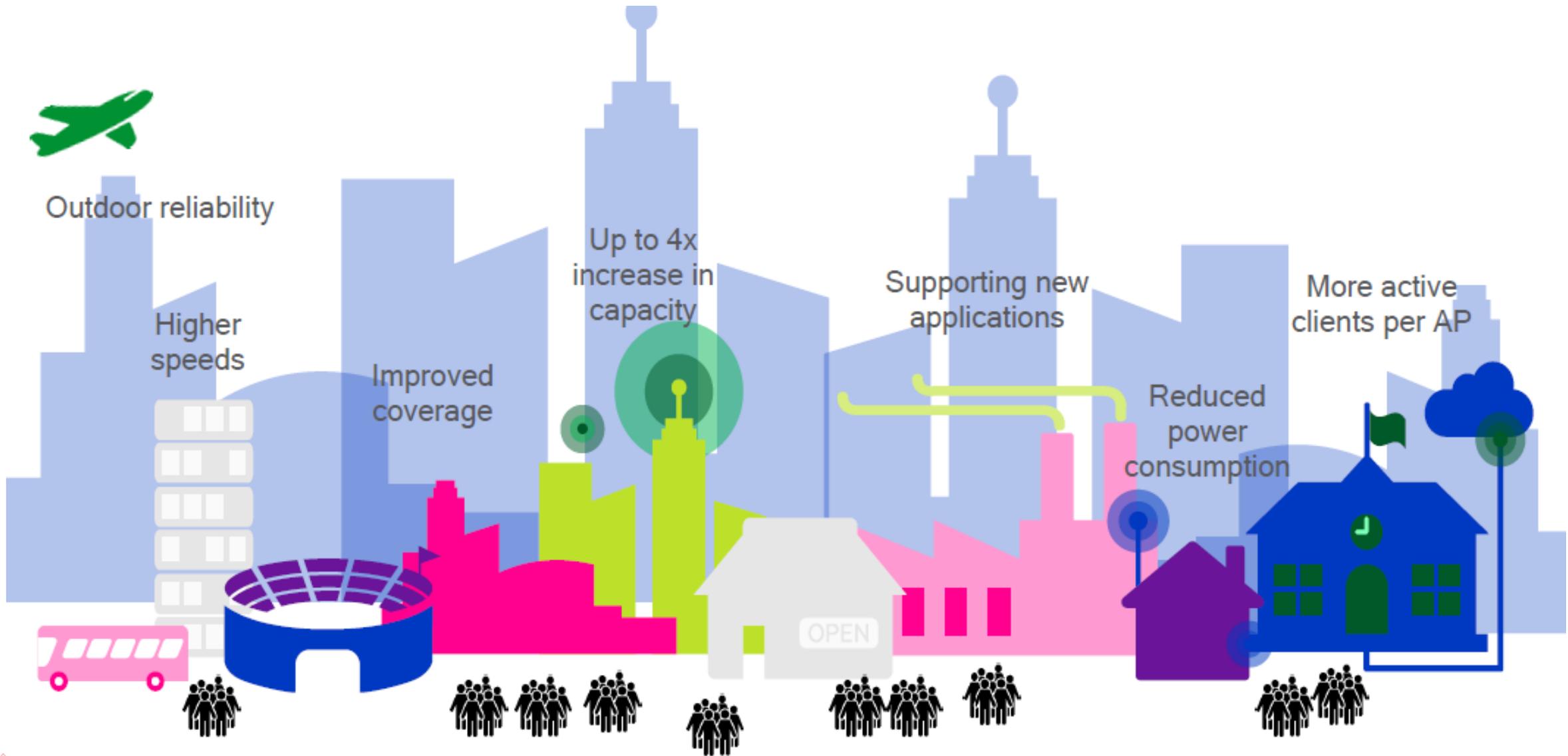
Converged APs

A multi-standard wireless access point (AP) that extends the traditional Wi-Fi only AP to include IoT and cellular wireless technologies.

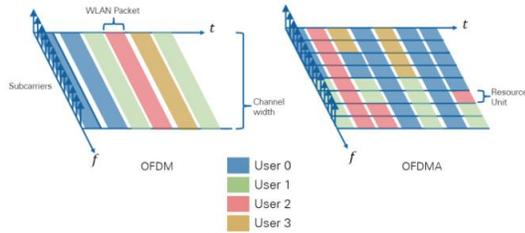
"As part of our test bed, the Ruckus R750 access point validates other devices for Wi-Fi CERTIFIED 6 interoperability."



Wi-Fi 6

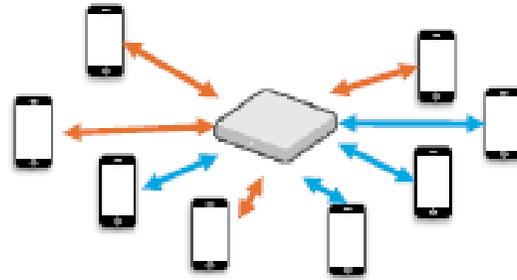


Wi-Fi 6 features



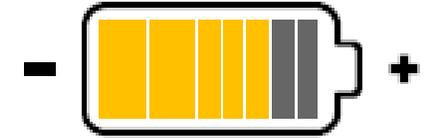
OFDMA

- ✔ Network capacity



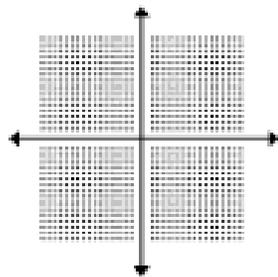
MU-MIMO

- ✔ Network capacity



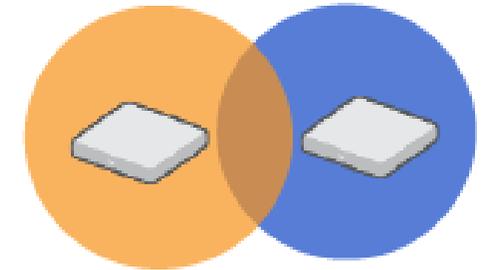
Power efficiencies

- ✔ Device battery life



1024-QAM

- ✔ Peak throughput increase



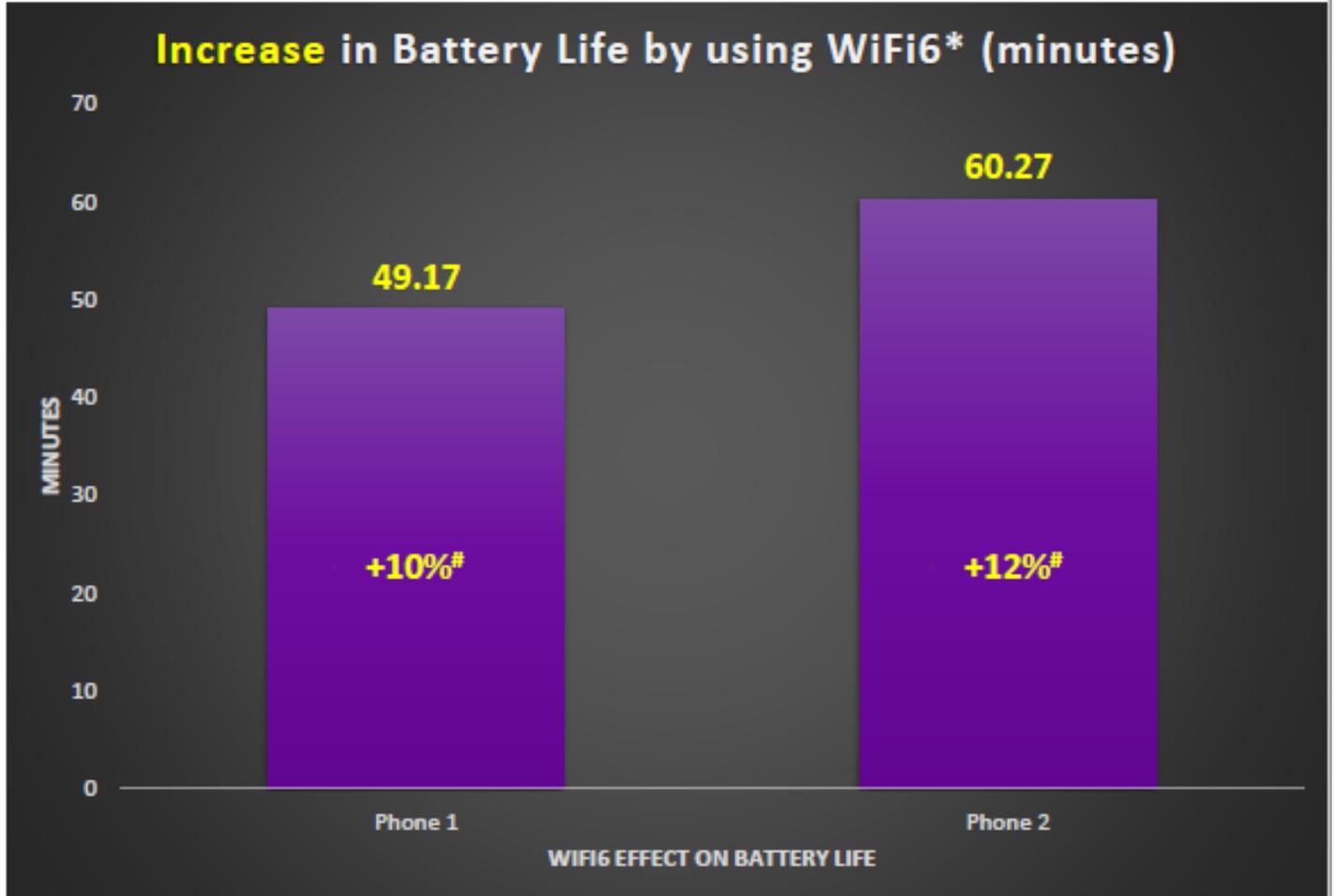
BSS coloring

- ✔ Network capacity
- ✔ Enhanced Wi-Fi coexistence

Wi-Fi 6 extends phone battery life by 1 hour

Use Case mix measured for:

- *Youtube streaming*
- *Online music streaming*
- *Email Send/Receive*
- *Web Browsing*

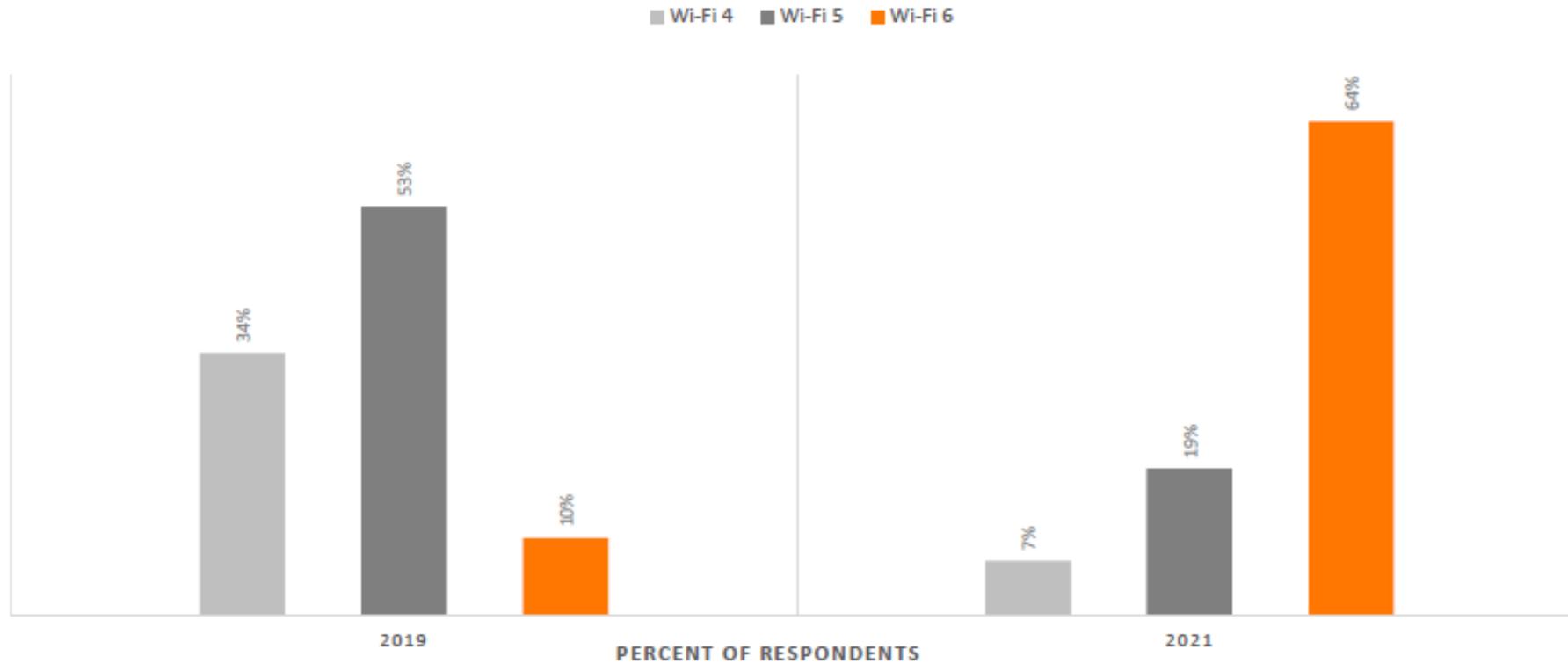


*measured on Google Pixel

assuming 8 hour battery life



Enterprises Migrating Quickly to Wi-Fi 6



Source: IHS Markit | WLAN strategies North American enterprise survey, August 2019

COMMSCOPE



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Principales Estándares 802.11

estándar	Publicado	Frecuencia (GHz)	Velocidad	Rango
IEEE 802.11	1997	2.4	2 Mbps	Dentro: 20 m
				Fuera: 100 m
IEEE 802.11a	1999	5/3.7	54 Mbps	Dentro: 35 m
				Fuera: 120/5000 m
IEEE 802.11b	1999	2.4	11 Mbps	Dentro: 35 m
				Fuera: 120 m
IEEE 802.11g	2003	2.4	54 Mbps	Dentro: 38 m
				Fuera: 140 m
IEEE 802.11n	2009	2.4/5	600 Mbps	Dentro: 70 m
				Fuera: 250 m
IEEE 802.11ac	2013	2.4/5	450 Mbps/1300 Mbps	Dentro: 35 m
IEEE 802.11ax	2019 est.	2.4/5 GHz	450 Mbps/10.53 Gbps	Dentro: 35 m





<https://www.ruckuswireless.com/solutions/80211ax>



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A Tale of 2 Spectrums

- Getting harder to find clean spectrum in both 2.4GHz and 5GHz
- 2.4GHz legacy devices still drive requirement to support from AP
- Video over Wi-Fi still dominates the Wi-Fi use case at 5GHz



2.4GHz is overly congested

Legacy devices still remain

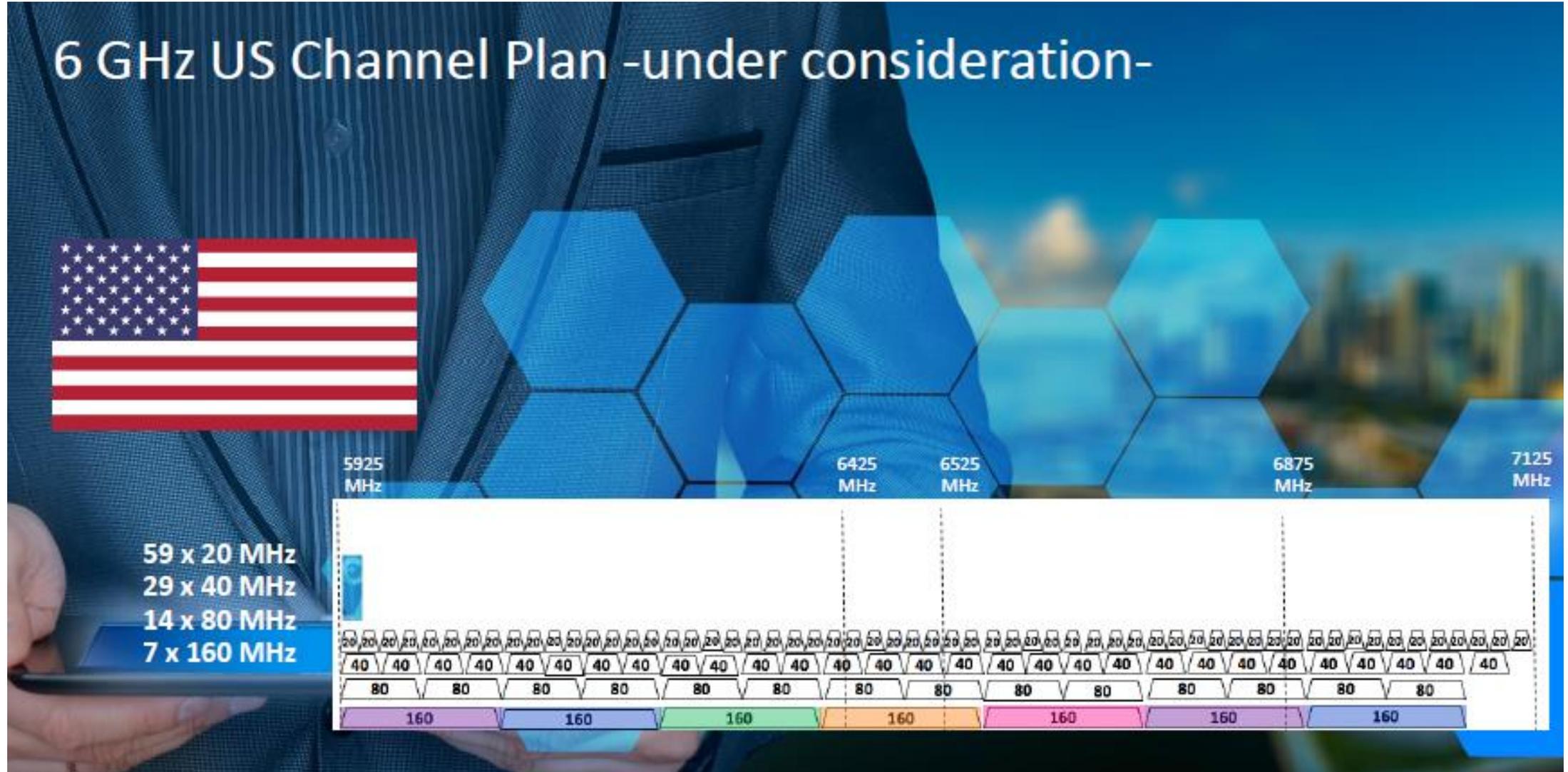
Back pocket range solution

5GHz now also congested

Video over Wi-Fi is the prize



WIFI 6E



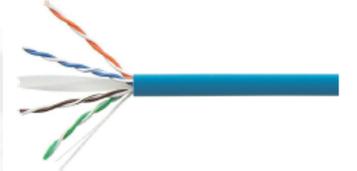
Think About Your AP Uplinks!

MultiGig Ethernet is the new standard!*

MultiGig APs will require MGigE ports!

Closet uplinks will move from 1/10Gb to 10/40Gb

Higher AP power consumption calls for more power supplied by the switch (PoH, UPOE, 802.3bt)

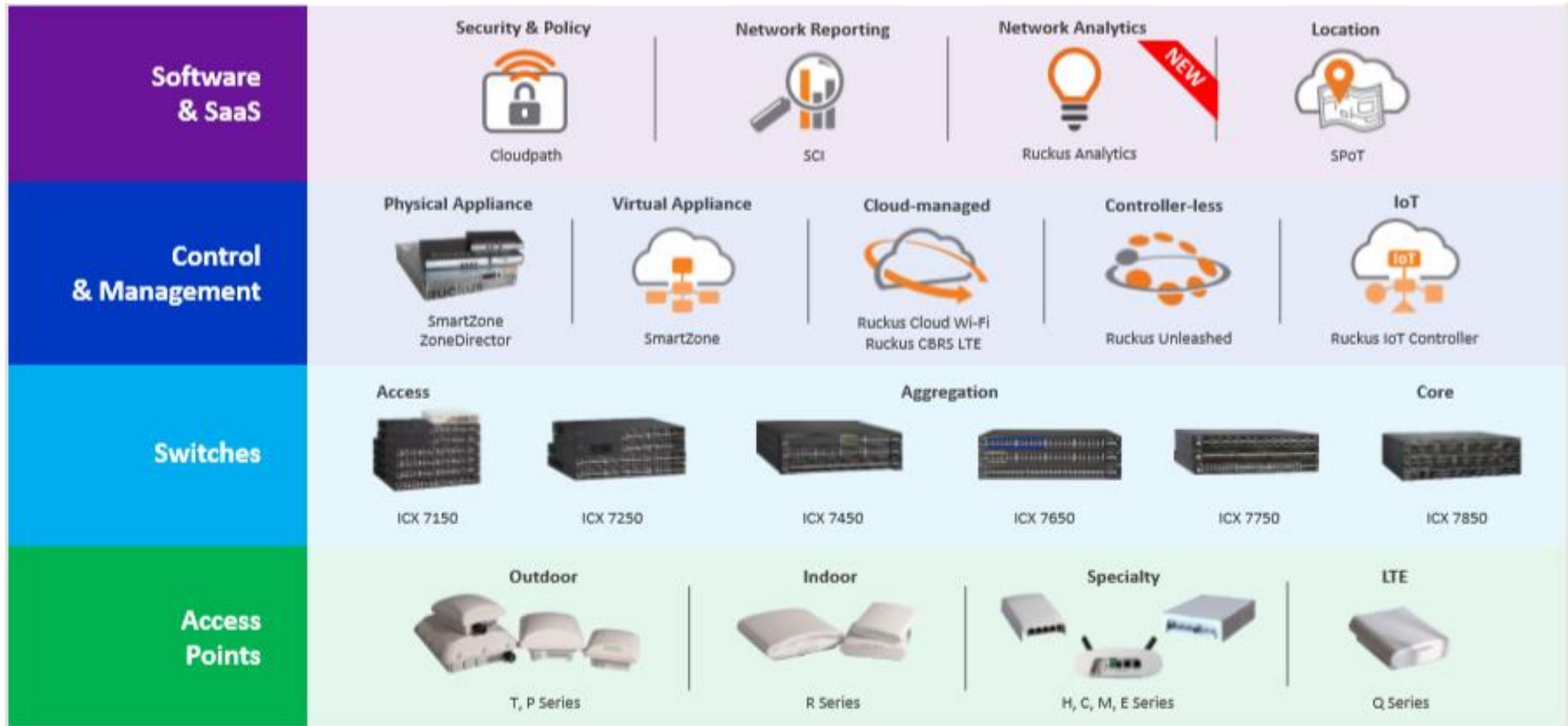


Cable Upgrade
Cat 6A

5 GHz Band # Radio Chains	2.4 GHz Band # Radio Chains	Average TCP Throughput	Ethernet Backhaul	Input Power over PoE
8x8	4x4	2.7 Gbps	5 Gbps	> PoE+
4x4	4x4	1.4 Gbps	2.5 Gbps	PoE+
2x2	2x2	0.7 Gbps	1 Gbps	PoE



Portafolio de Ruckus





Wi-Fi 6 Certified Access Point Portfolio



	R750
WFA Certification	✓
Radio Chains & Streams	4x4:4 (2.4GHz and 5GHz)
Max Clients	1,024
Physical Interfaces	1 x 2.5Gbps port 1 x 1Gbps port
Onboard IoT	✓
List Price	\$1395
GA	Oct 2019

	R650	T750
WFA Certification	✓	✓
Radio Chains & Streams	4x4:4 (5GHz) + 2x2:2 (2.4GHz)	4x4:4 (2.4GHz and 5GHz)
Max Clients	512	1,024
Physical Interfaces	1 x 2.5Gbps port 1 x 1Gbps port	1 x 2.5Gbps port 1 x 1Gbps port
Onboard IoT	✓	✓
List Price	\$1095	\$3495/\$3695
GA	Available	Available

	R850	R550
WFA Certification	✓	✓
Radio Chains & Streams	8x8:8 (5GHz) 4x4:4(2.4GHz)	2x2:2 (2.4GHz and 5GHz)
Max Clients	1,024	512
Physical Interfaces	1 x 5Gbps port 1 x 1Gbps port	2 x 1Gbps port
Onboard IoT	✓	✓
List Price	\$1695	\$795
GA	May 2020	May 2020



Converged APs

WiFi®



Bluetooth



Universal APs



SmartZone



Cloud

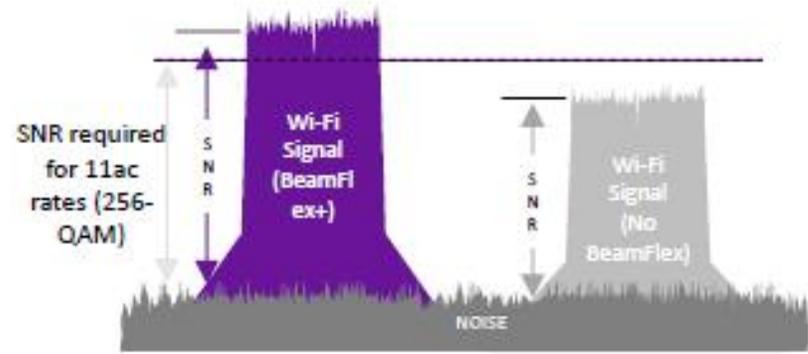


Unleashed

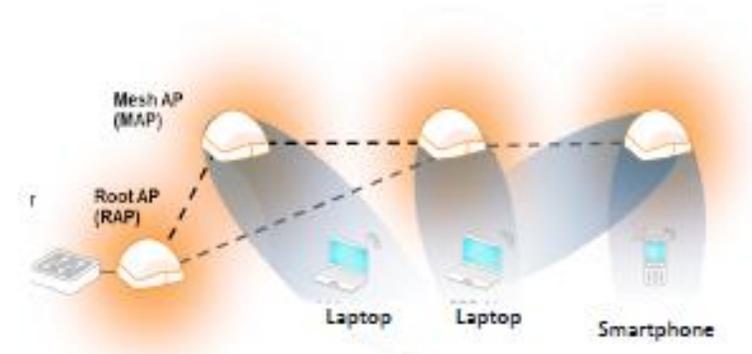


Best APs in Business

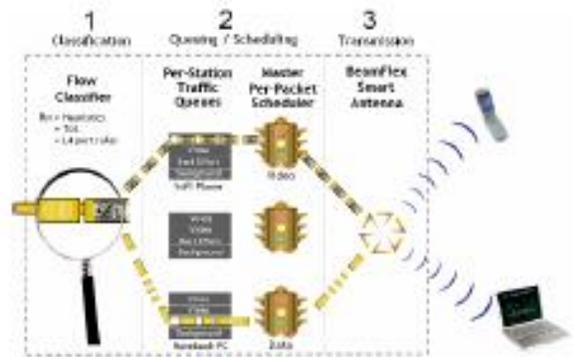
Patented Technologies make our APs the best in the business



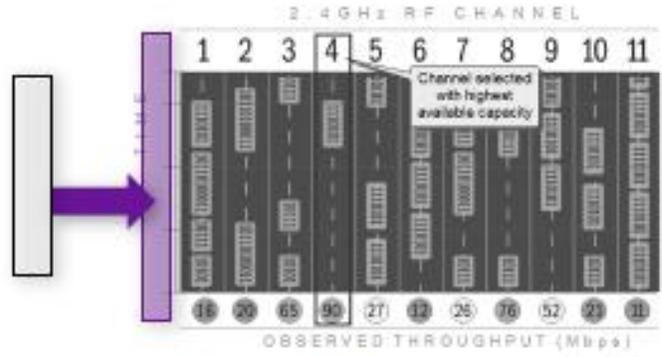
BeamFlex+



SmartMesh



SmartCast

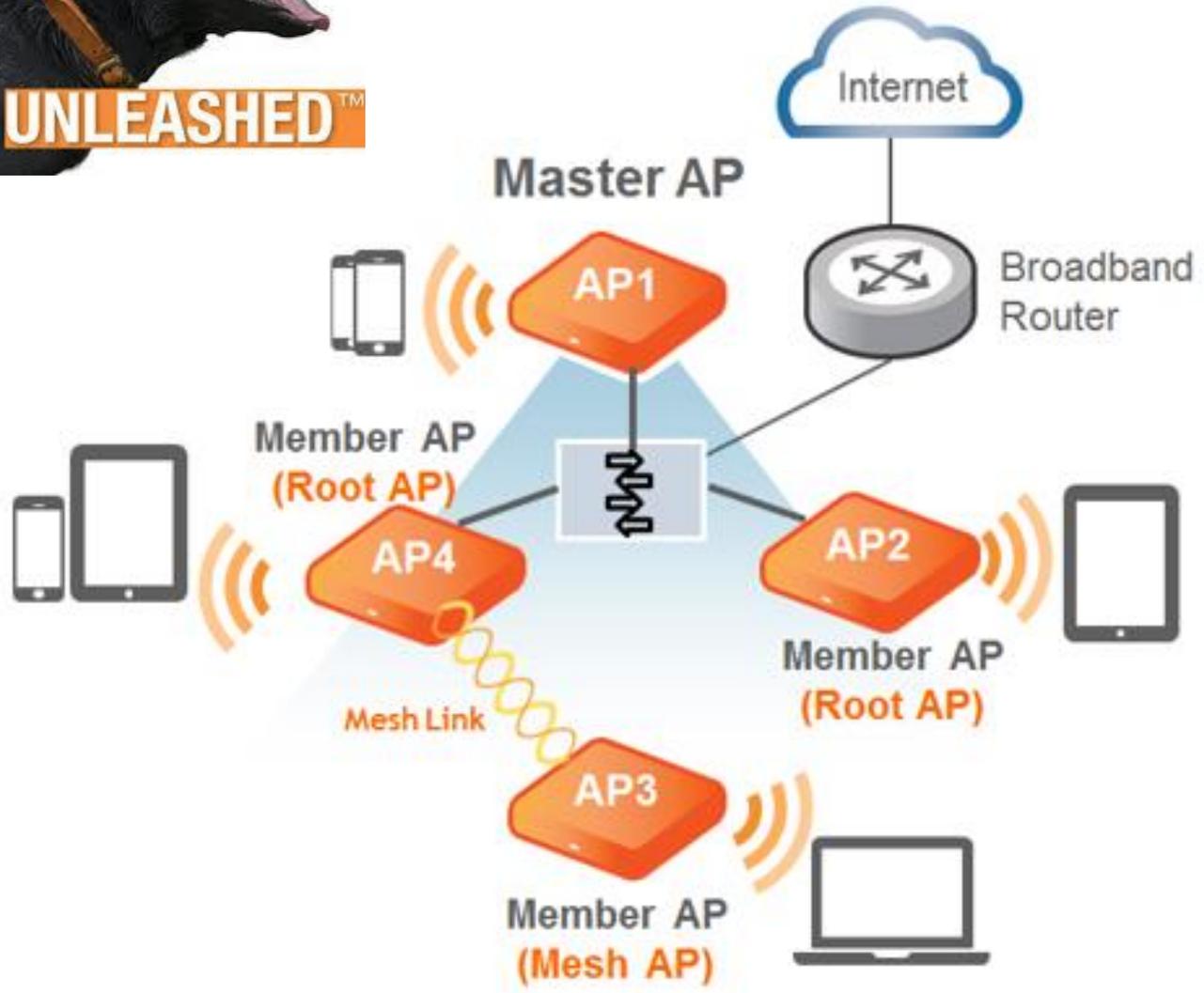


ChannelFly





UNLEASHED™



UNTETHERED PLACEMENT

WALL MOUNT CEILING MOUNT DESK MOUNT

Untethered mesh APs can be placed anywhere, allowing adds, moves and changes in seconds at your convenience.



Ruckus Unleashed

Ver. 200.8

Now

(802.11 ac Wave 2 or newer gen
APs)

128 APs

**2,048
Clients**

Before

50 APs

1,024 Clients



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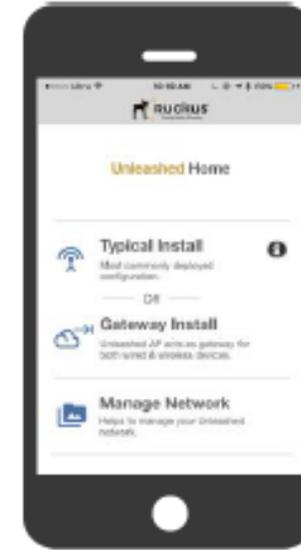


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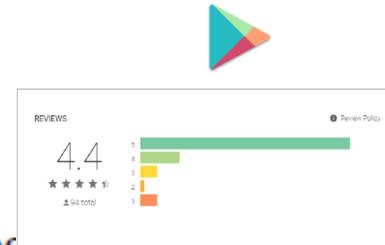
Implementación & Administracion Unleashed



Browser
Manage locally



Mobile App (Free)
Manage up to 10 sites
locally/remotely



Unleashed supports deployment of up to 128 APs per site
Each site can have up to **2,048 concurrent devices**





Gracias



Lotus*Servicios*

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