Transformative role of Dynamic access as a complement to licensed access

November 2025

20 Billion connected devices

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496 Million Terabytes

data created every day

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Enabling reliable connectivity for all remains one of the **world's most pressing challenges**

Cellular

Wi-Fi

Wi-Fi + cellular help bridge digital divide together

And yet …

Gaps in coverage in the
World's most hard-to reach areas

Non Terrestrial Network (NTN) Technologies Fill the Gap

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Economics of **Cellular**

→ Typically adds >$100 to BOM

→ 5-7x more expensive than Wi-Fi

→ Complexity in implementation

We expect these economics to also apply to cellular NTN

➢ **Absent smartphones and cars, most devices do not even contain cellular connectivity**

➢ **Wi-Fi is in nearly every connected device**

Nearly 6X higher attach rate for Wi-Fi

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Wi-Fi remains the backbone of everyday connectivity

➢ Wi-Fi continues to be the world's **main on-ramp** to the internet

➢ Over half the world connects **primarily through Wi-Fi networks**

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Extends wired, fixed wireless, and satellite broadband

Versatile,
LAST MILE ACCESS

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Enabling device to device connections

Ultra High Reliability ⇨ Low Latency KPIs

Evolving

into reliable technology
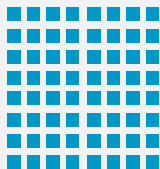when 6 GHz band
available

6 GHz Brings Key Wi-Fi 7 Features to Life

Wider Channel Bandwidth

320 MHz

4096-QAM

Multi-Link Operation

Automatic Frequency Coordination

AFC

Wi-Fi 7 Improved Congested Network Performance

Capacity

5x

network capacity[1]

Latency

100x

Improvement in worst case latency[2]

Determinism

15x

Improved AR/VR latency performance[3]

Coverage

63x

Higher transmit power than indoor 6 GHz Wi-Fi

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Wi-Fi 7 in Action: Comcast

COMCAST

➤ 31.8 million **broadband customers***

➤ 7.5 million **mobile lines***

➤ 23 million **Wi-Fi hotspots**

90% of smartphone usage over Wi-Fi

94% of devices in home connect over Wi-Fi

1% of customers have ~150 connected devices

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Advent of the AI Age

50 / 50
uplink & downlink

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Advent of the AI Age

2x
lower latency

10x
higher reliability

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INTRODUCING

The Wi-Fi for AI

THROUGHPUT

Unequal Modulation

Enhanced MCS

Advanced LDPC codes

RANGE

Distributed Resource Units

Enhanced Long Range

Wi-Fi

CAPACITY

Inter-AP Coordination

Non-Primary Channel Access

Dynamic Subband Operation (DSO)

Dynamic Bandwidth Expansion

RELIABILITY AND QoS

Low Latency Indication

Seamless Roaming

QoS Enhancements

Prioritized EDCA

Enhanced In-Device Coexistence

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Wi-Fi 8 Delivers Well Beyond Wi-Fi 7 in Congested Networks

200%
higher median
THROUGHPUT

6x
lower P99 AI-Ready voice
LATENCY

50%
reduction in active
POWER CONSUMPTION

2x
better
IOT COVERAGE

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Access to

Unlicensed Spectrum

provides the roadmap for Wi-Fi's evolution

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THE TRANSFORMATIVE POWER OF

Wi-Fi

IS HERE

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THANK YOU