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Informa Welcome Address

Melina Diamantopoulou
Conference Director
Informa Connect

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Chair's Welcome Address

Phil Harvey
Editor-in-Chief
Light Reading

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Operator Keynote: Building America's Future: A Service Provider's Network Evolution Strategy

Yigal Elbaz
SVP, Technology & Network Services, Network CTO
AT&T

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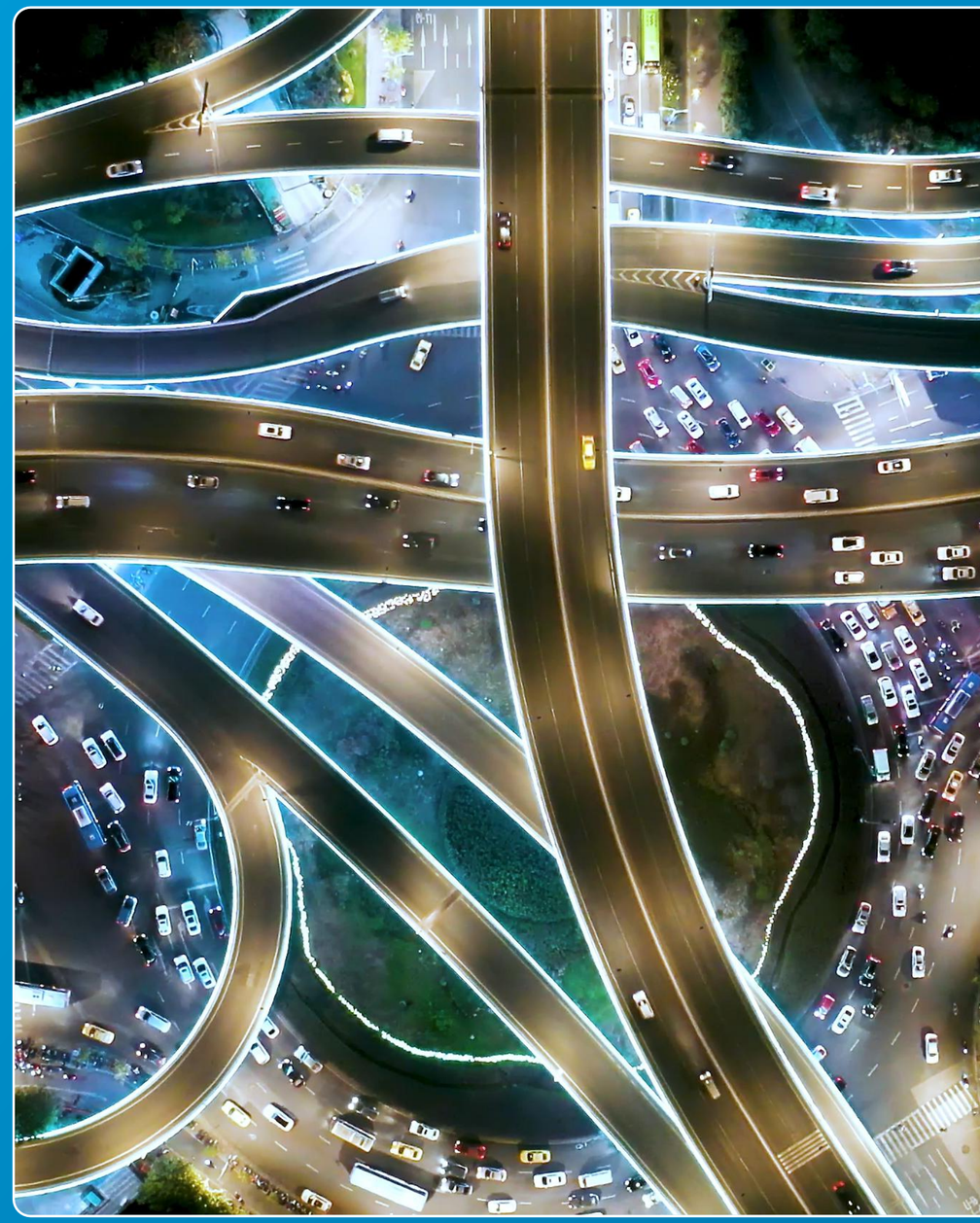
Next Era Network

Yigal Elbaz, Network CTO, AT&T

Customer AI trends accelerate traffic

3X by 2030



AT&T

A super-charged *AI network*

AT&T's network:

OPEN, software driven, converged at scale

Total fiber locations

37M+ → **60M**

Today | by 2030

AT&T

AT&T's network is for any era

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Keynote Panel Discussion - Convergence in action – Competing, scaling and winning in the AI-driven connectivity market

Moderator: Ruth Brown, Senior Principal Analyst, GTM Telecom Insights and Advisory, **Omdia**
Dr Derek Peterson, CTO, **Boingo Wireless**
Tim Fell, VP, Wireline Technology & Services, **TELUS**
Josh Goodell, VP, Broadband and Converged Product Development, **AT&T**

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WBA Keynote - OpenRoaming: The Global Standard for Seamless Connectivity

Tiago Rodrigues
President & CEO
Wireless Broadband Alliance

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Wireless Broadband Alliance

ONE GLOBAL WI-FI NETWORK

Tiago Rodrigues
President and CEO

OpenRoaming™
WIRELESS BROADBAND ALLIANCE

Wireless Broadband Alliance

OPENROAMING™

ONE GLOBAL WI-FI NETWORK

Providing Automatic & Secure Wi-Fi Everywhere to Everyone

WBA OpenRoaming™ is a roaming federation service enabling an automatic and secure Wi-Fi experience globally. With WBA OpenRoaming™, we are creating an open connectivity framework for all organizations in the wireless ecosystem to power new opportunities in the 5G era.

LEARN MORE

OPENROAMING.ORG

OPENROAMING GROWING +50% ANNUALLY

OpenRoaming
WIRELESS BROADBAND ALLIANCE

OpenRoaming Wi-Fi Coverage Map

Click Here for more information

https://wballiance.com/openroamingmaps/

16:32

Edit

Wi-Fi

Connect to Wi-Fi, view available networks, and manage settings for joining networks and nearby hotspots. Learn more...

Wi-Fi

OpenRoaming_WBA
Osaka Free Wi-Fi OpenRoaming

Networks

Other...

Ask to Join Networks — Ask

Known networks will be joined automatically. If no known networks are available, you will be asked before joining a new network.

Auto-Join Hotspot — Automatic

Allow this device to automatically discover nearby personal hotspots when no Wi-Fi network is available.

Wireless Broadband Alliance

QOS & QOE FOR WI-FI PROGRAM

RADEXT Working Group
Internet-Draft
Intended status: Informational
Expires: 3 September 2026

M. Grayson
Cisco Systems
J. Redmore
CableLabs
2 March 2026

A syntax for the RADIUS Connect-Info attribute used in Wi-Fi networks
draft-grayson-connectinfo-08

Abstract

This document describes a syntax for the Connect-Info attribute used with the RADIUS protocol, enabling RADIUS clients to provide RADIUS servers information pertaining to a user's connection with an IEEE 802.11 wireless network.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF). Note that other groups may also distribute working documents as Internet-Drafts. The list of current Internet-Drafts is at https://datatracker.ietf.org/drafts/current/.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

This Internet-Draft will expire on 3 September 2026.

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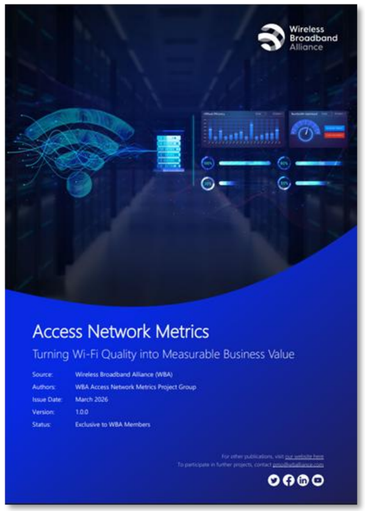
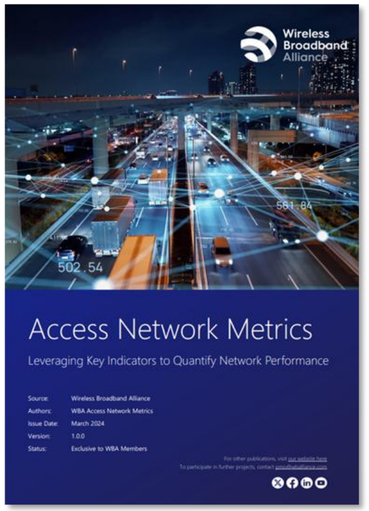
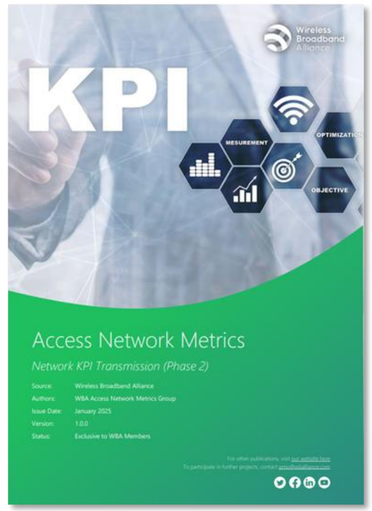
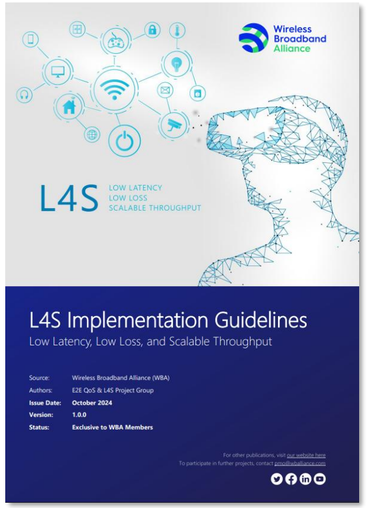
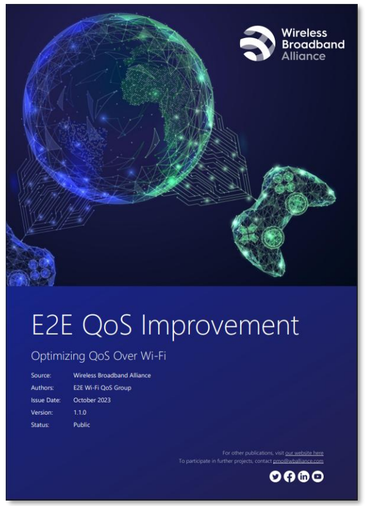
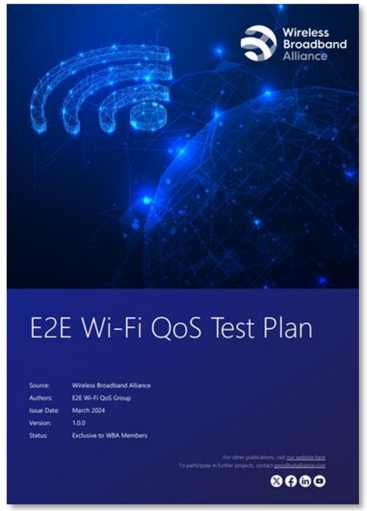


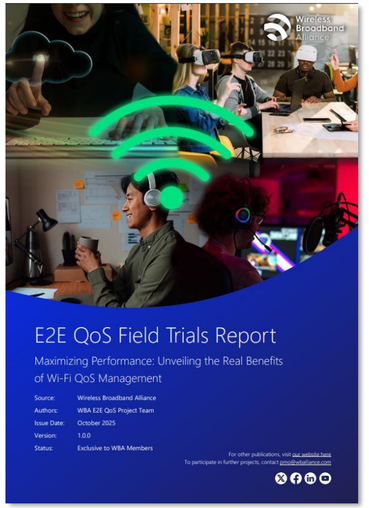










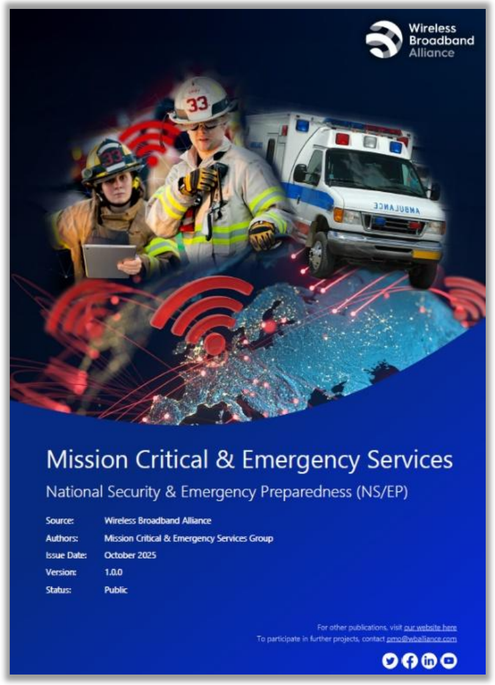


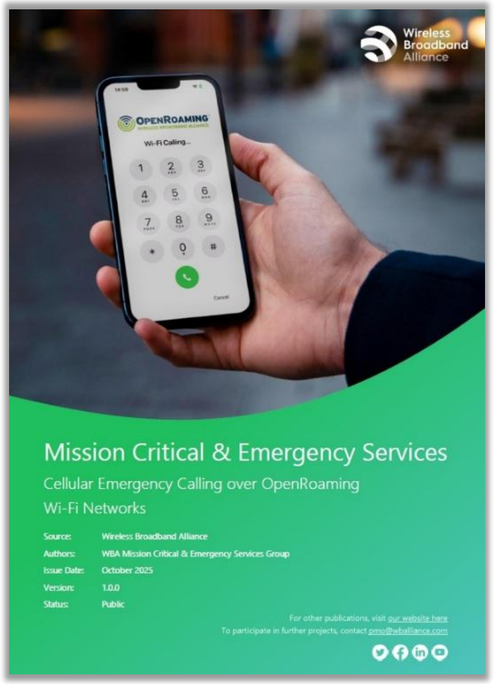
CONNECT-INFO (RADIUS Attribute)

- Real-time Wi-Fi QoS metrics at authentication
- Enables dynamic policy (devices & IDPs)
- IETF review result by Q3 2026

Wireless Broadband Alliance

MISSION CRITICAL AND EMERGENCY SERVICES OVER WI-FI PROGRAM





- E911 over Wi-Fi
- Prioritization to First Responders IDs
- Messaging to devices

WHY THIS MATTERS

1. People spend ~90% of time indoors; ~80% of smartphone data use is indoors.
2. Modern building materials block cellular signals (30 dB+ entry loss typical).
3. During disasters, Wi-Fi remains available when cellular fails or is congested.
4. Extending emergency services access to Wi-Fi closes coverage gaps and can save lives.

Wireless Broadband Alliance

THE FUTURE OF CONNECTIVITY IS AUTOMATIC, SECURE, AND GLOBAL OPENROAMING AND THE WBA COMMUNITY ARE BUILDING IT TOGETHER.

BE PART OF WBA

THANK YOU

Wireless Broadband Alliance

LET’S CONNECT

Tiago Rodrigues

WBA, President and CEO

tiago@wballiance.com

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To the Edge of Tomorrow: How Comcast's AI driven Network Is Transforming Connectivity and Innovation

Elad Nafshi
EVP & Chief Network Officer
Comcast Cable

informa

COMCAST

To the Edge of Tomorrow

ELAD NAFSHI, CHIEF NETWORK OFFICER, COMCAST

COMCAST







We’re here to change lives

COMCAST

That’s why we’re leading the boldest network transformation this country has ever seen

65M

Total homes and businesses passed

Gig+

Download speeds on broadband and mobile

1M+

Homes added per year

COMCAST

We’re making our network smarter at every level

Core Network Virtualization

Full Network Automation

+50K Edge Compute Servers

Deeply Embedded AI NPUs

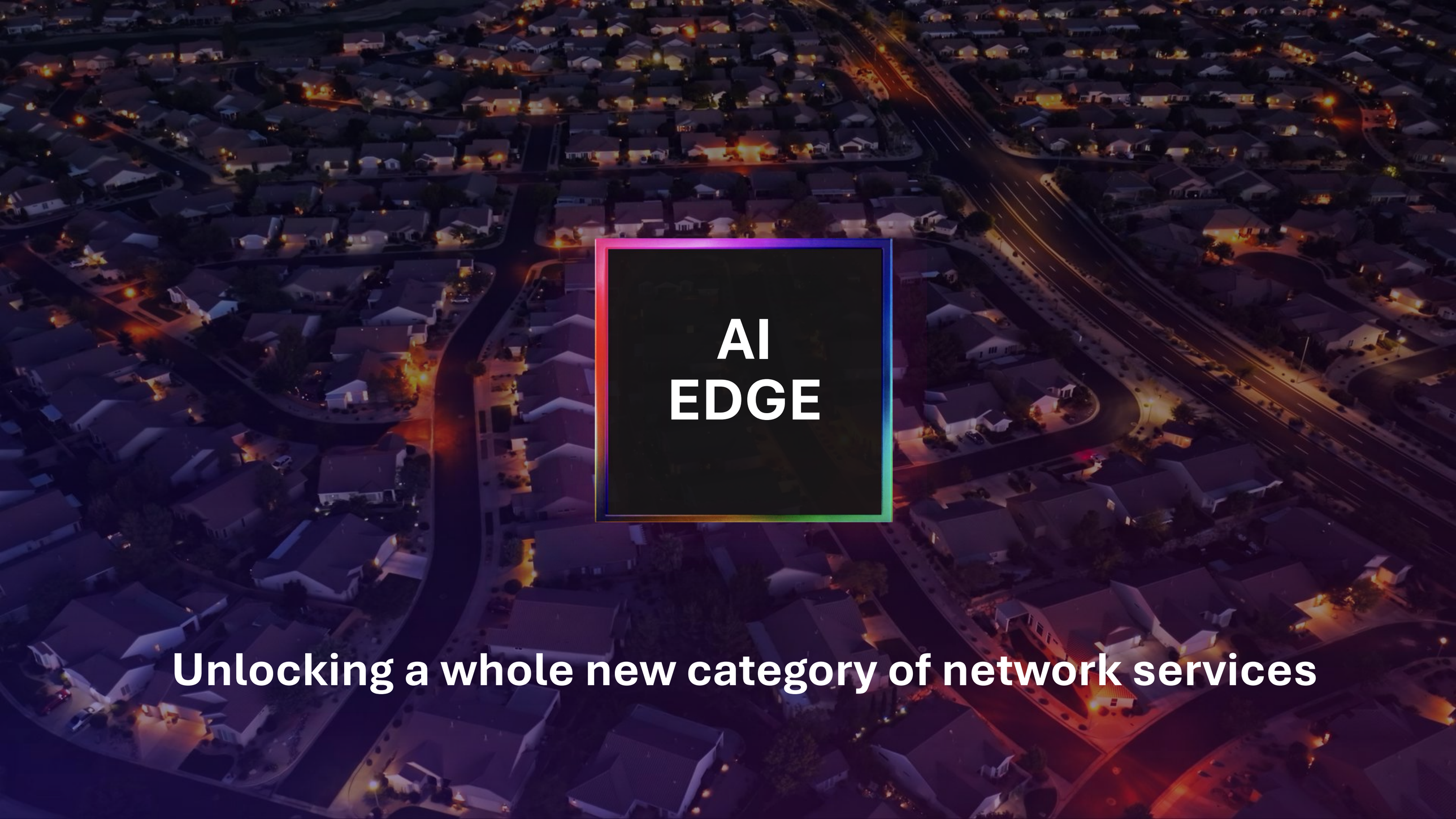

A more meshed, telemetry driven network


Redefining Network Redundancy
Now there’s more than two ways of getting there

OUR NETWORK IS OUR BEST ASSET

1,300+

Edge Compute Clusters powering our connectivity business



Unlocking a whole new category of network services

Live sports is shifting the Internet in new ways

1

DEC 4, 2025

2

FEB 8, 2026

3

DEC 5, 2025

4

DEC 25, 2025

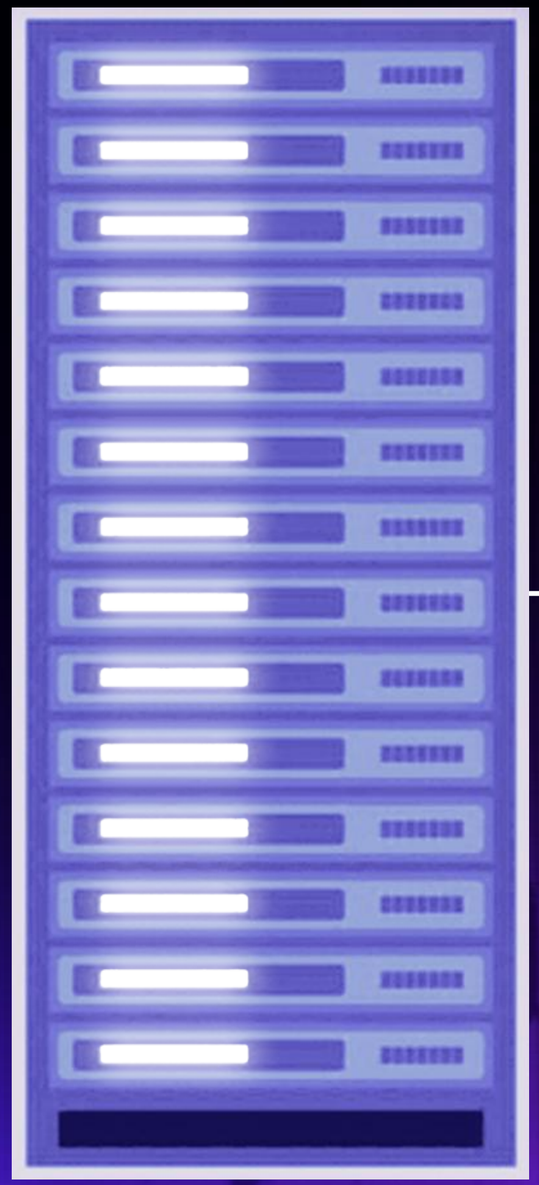
5

NOV 10, 2025

Gaming and sports drive the highest demand


First ISP to launch ultra-low lag capabilities


SUPER BOWL
HIGHEST QUALITY, LOWEST LATENCY
Up to 49 seconds faster than other providers, delivering the highest quality
xfinity
4K



An edge cache standard.

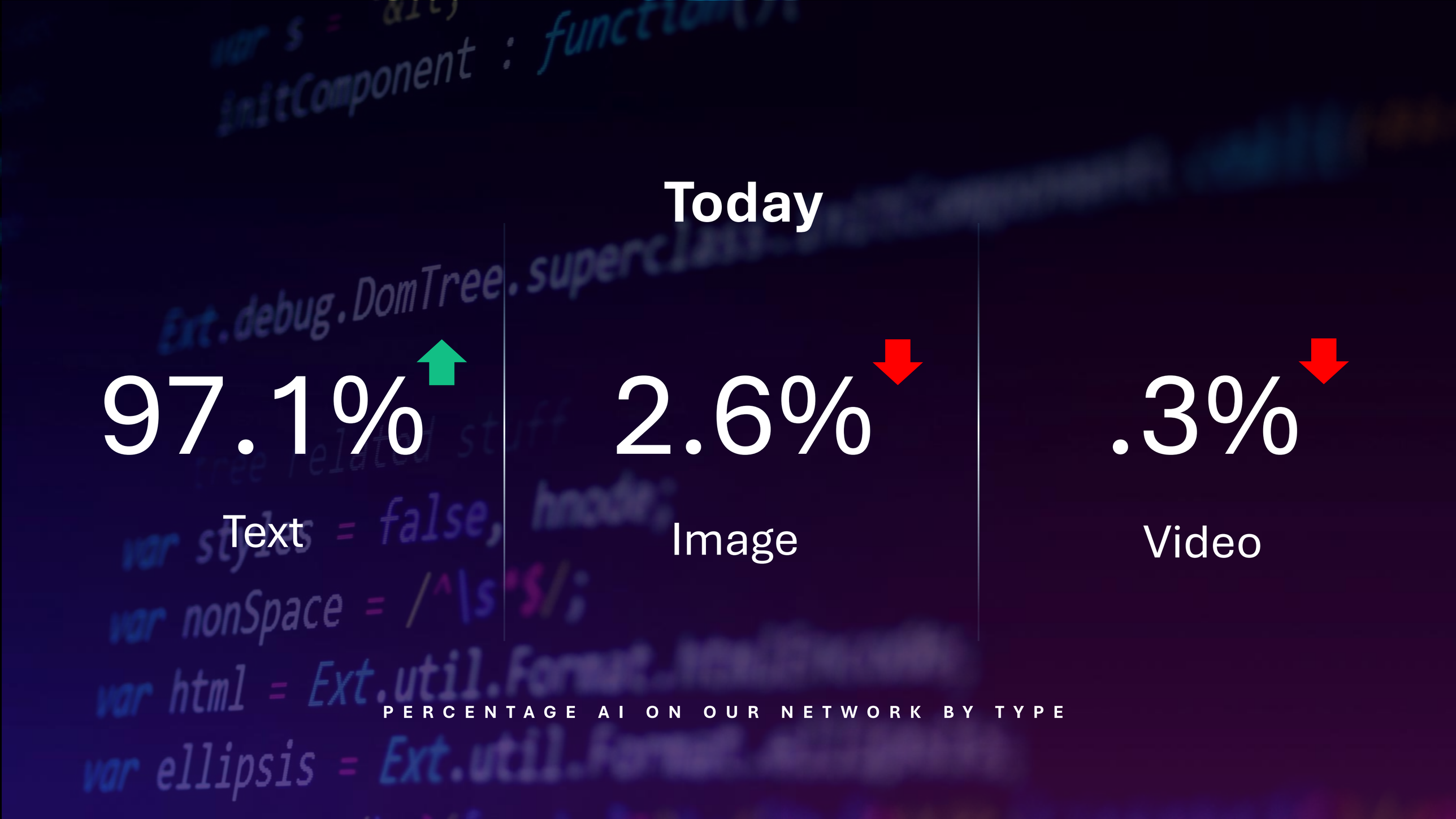
Built for the entire industry.

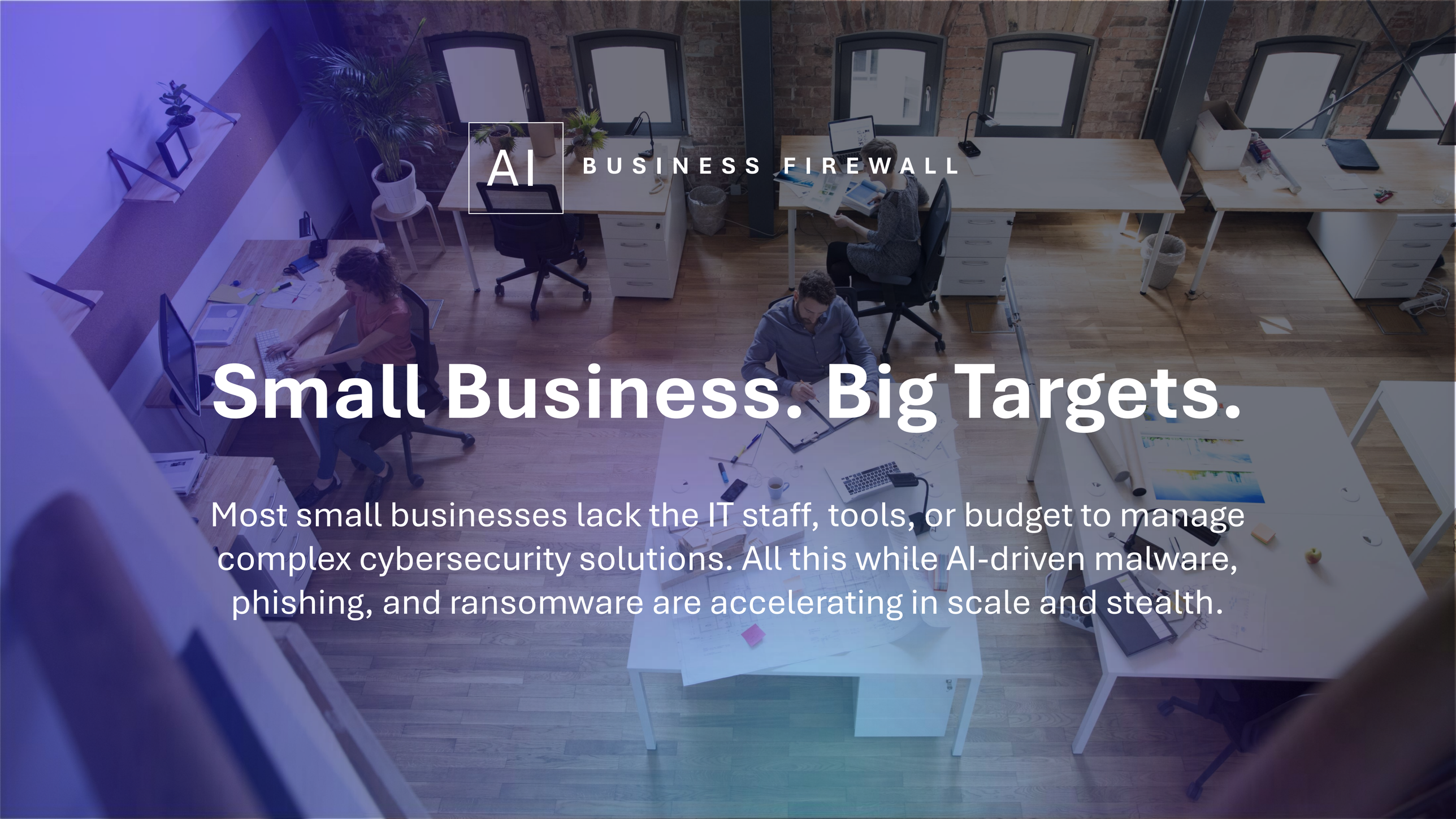
Next football season will be even better

October 2025

85.5%	12.5%	2.0%
Text	Image	Video

PERCENTAGE AI ON OUR NETWORK BY TYPE


Today
97.1%
Text
2.6%
Image
.3%
Video
PERCENTAGE AI ON OUR NETWORK BY TYPE



Small Business. Big Targets.

Most small businesses lack the IT staff, tools, or budget to manage complex cybersecurity solutions. All this while AI-driven malware, phishing, and ransomware are accelerating in scale and stealth.

EDGE SERVER

NEIGHBORHOOD

PREMISES

The New Security Perimeter

The edge is the new frontline, where AI-driven applications can defend small businesses at enterprise scale with a living firewall woven into every network component, from the server level right down to the premises.

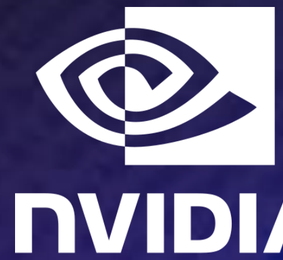
COMCAST BUSINESS

PROXIMITY IS KEY

We’re never more than 5 milliseconds away from the customer.

NEWS

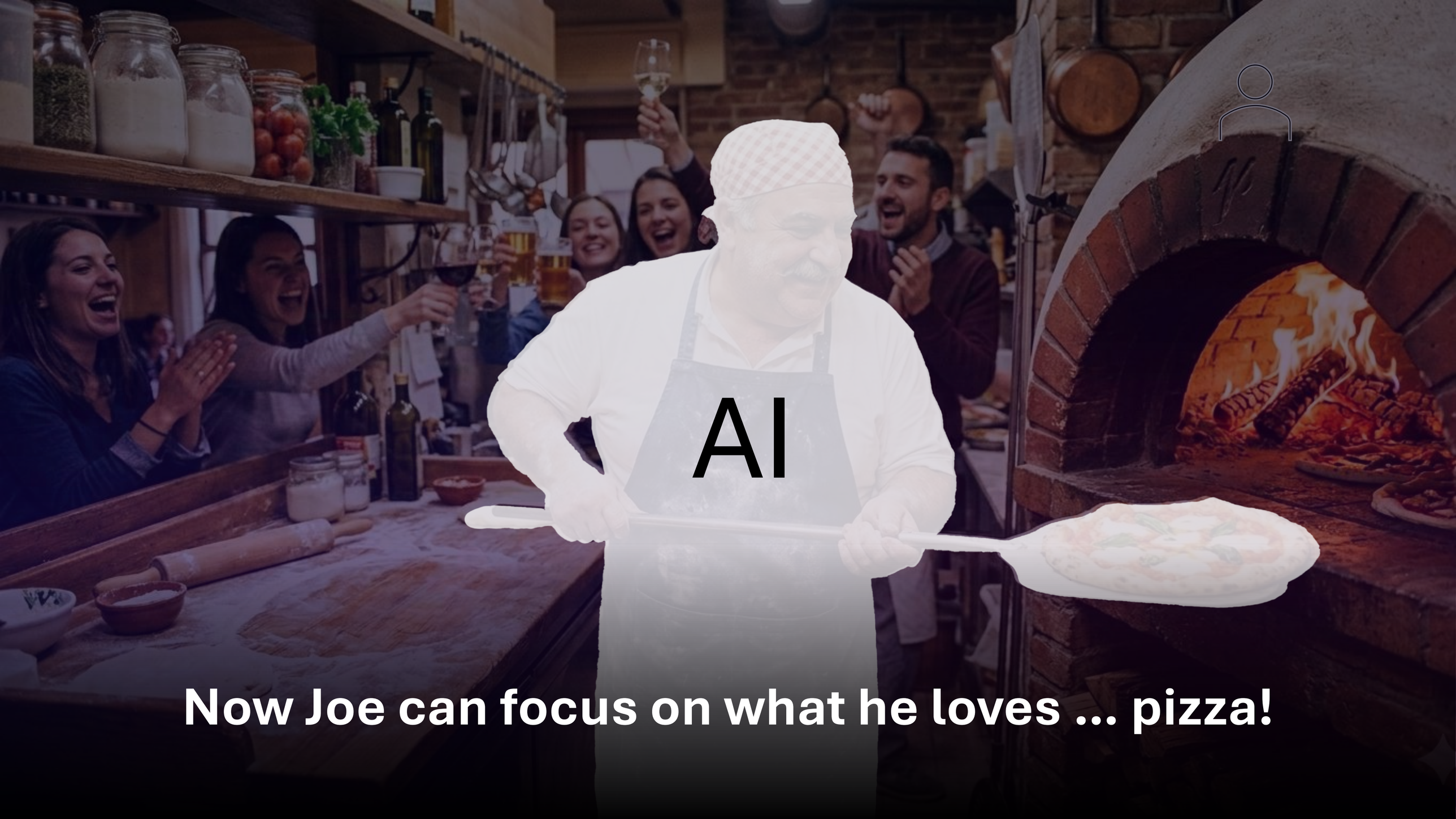
Comcast and NVIDIA Bring AI to the Network Edge to Accelerate Next-Generation Applications



Joe loves making pizza.

Doesn’t want to be bothered with everything else.

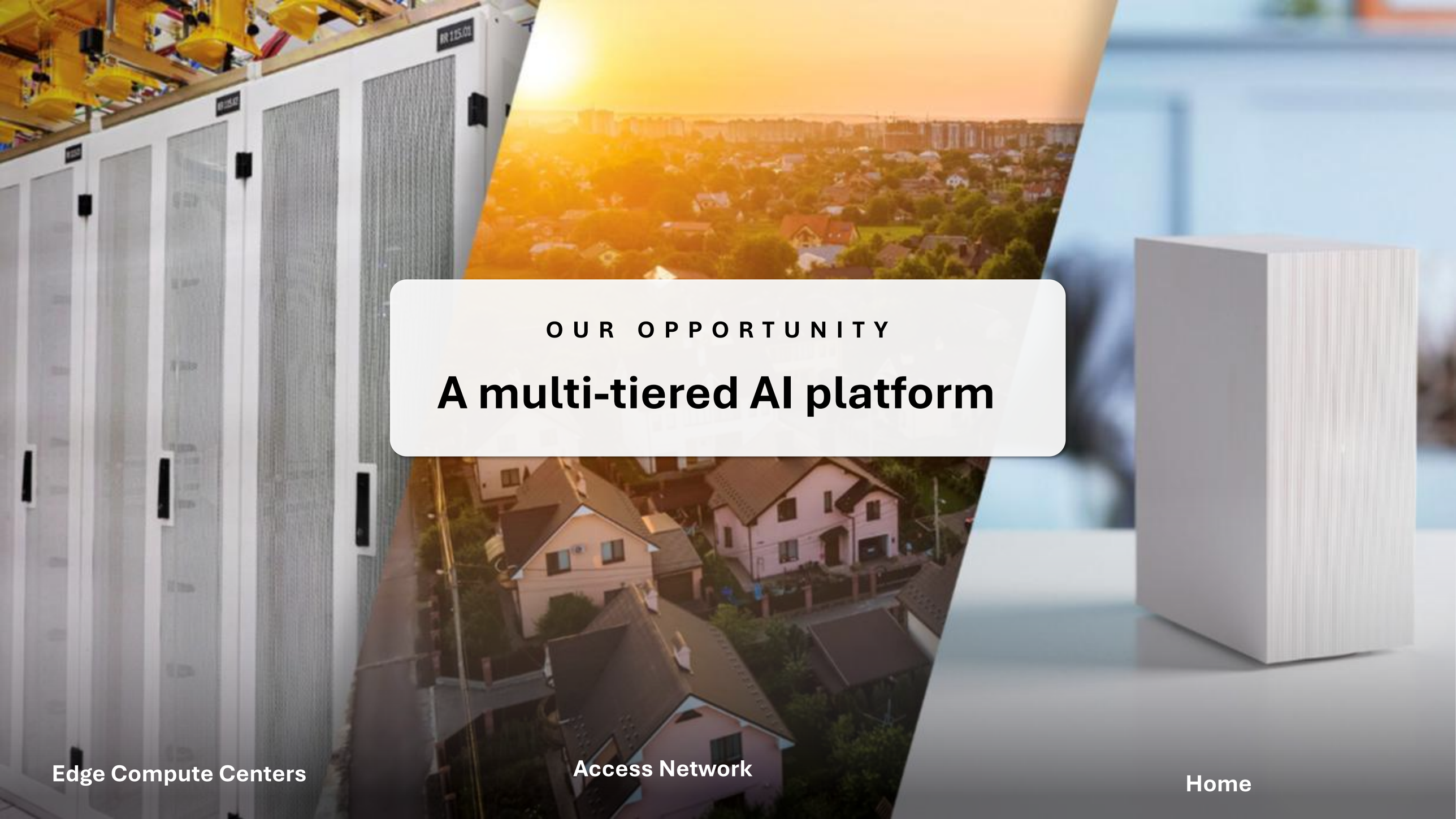

CONCIERGE

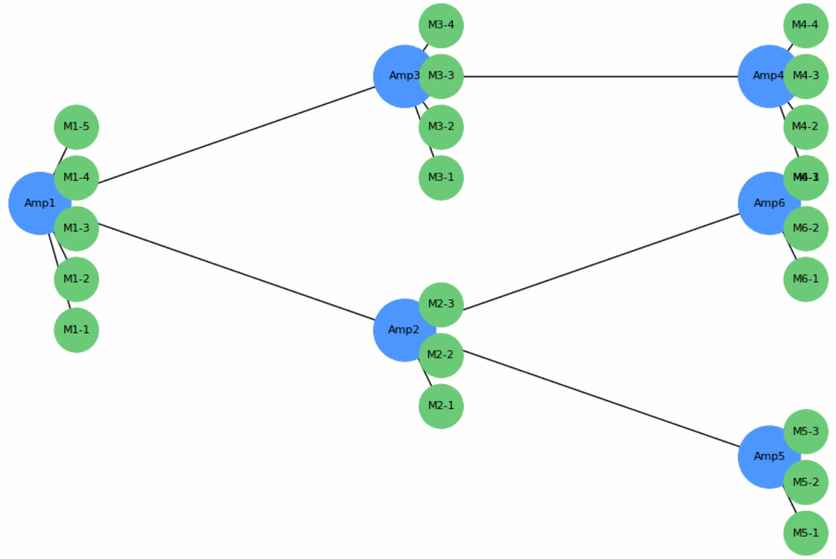


Now Joe can focus on what he loves … pizza!

DOCSIS 4.0 Launching Nationally

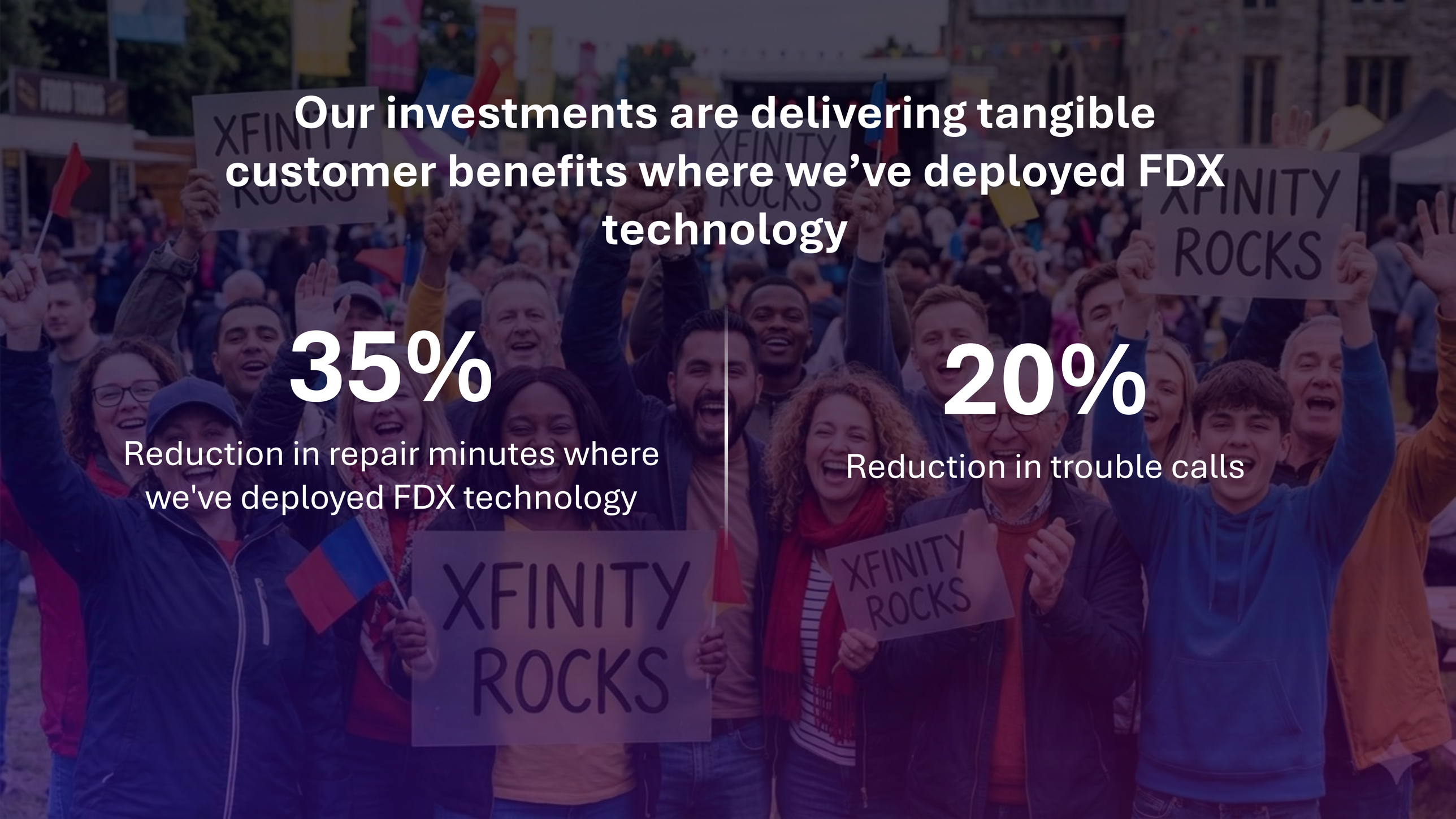
Millions of homes with multi-gig services


OUR OPPORTUNITY
A multi-tiered AI platform
Edge Compute Centers
Access Network
Home



99.2% accuracy

AI can understand outside plant topology across our really, really big network



Our investments are delivering tangible customer benefits where we've deployed FDX technology

35%

Reduction in repair minutes where we've deployed FDX technology

20%

Reduction in trouble calls

WiFi fuels every move

Wireless and wireline delivering 1 Gig over WiFi


COMCAST

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U.S. Spectrum Priorities

Tricia J. Paoletta, Senior Advisor for Spectrum, **NTIA**
Mari Silbey, Chief Program Officer, **National Spectrum Consortium**

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Keynote Panel Discussion – AI-powered enterprise: Scaling B2B services in the age of AI

Moderator: Karim Taga, Managing Partner, **Arthur D Little**
Shawn Hakl, SVP, Business Product, **AT&T**
Lamont Copeland, Senior Director, Public Sector Sales Engineering, **Verizon Business**
Tiago Rodrigues, President & CEO, **Wireless Broadband Alliance**

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Networking and Refreshment Break

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WGC AMERICAS

MAY 18 – MAY 21

Wi-Fi Innovation: Connecting Our Digital World

IRVING CONVENTION CENTER AT LAS COLINAS, DALLAS, USA

#WGCAMERICAS | #wifirevolution | #lovewifi

Wireless Global Congress Americas

Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

CEO Welcome to WGC Americas

Wireless Global Congress Americas

EXECUTIVE PLENARY
WI-FI INNOVATION – CONNECTING OUR DIGITAL WORLD

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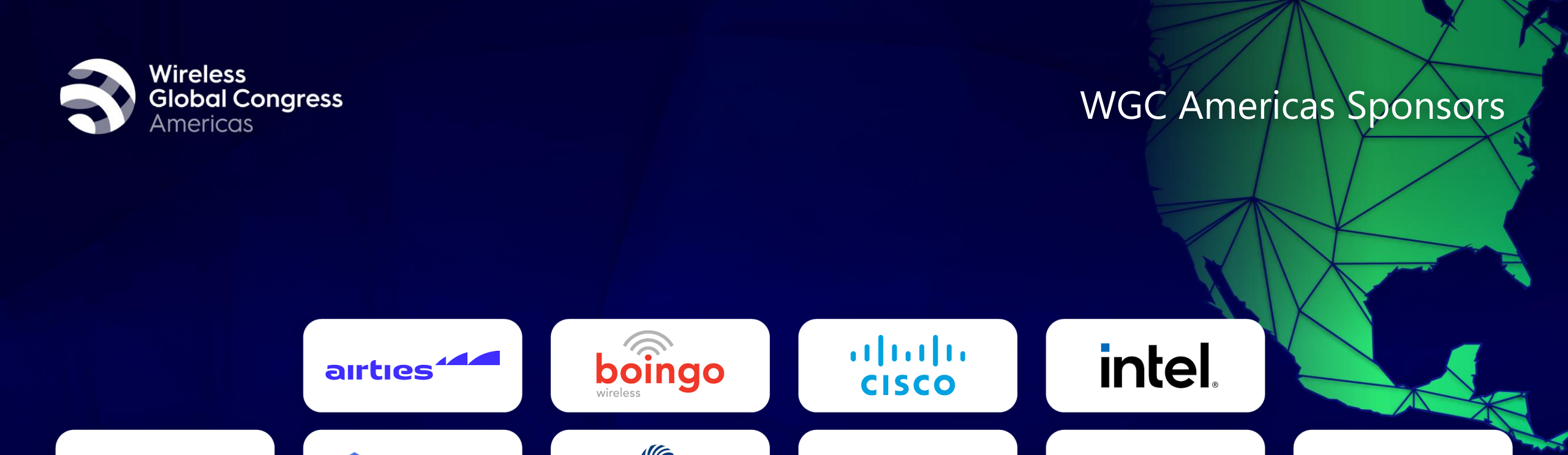

Wireless Global Congress Americas

Time	Presentation
11:30 AM (CDT)	**CEO Welcome to WGC Americas** Tiago Rodrigues – President & CEO, Wireless Broadband Alliance
11:40 AM (CDT)	**Wi-Fi's Role In the Next Era of Networking** Dr. Derek Peterson – CTO, Boingo Wireless
12:00 AM (CDT)	**From State of Wireless 2026: What It Means for Your Network** Matt MacPherson – Wireless CTO, Cisco
12:20 PM (CDT)	**Inside the Experience Economy: How Software Is Redefining Home Wi-Fi** Dr. Sarper Gokturk – VP Innovation, Airties
12:40 PM (CDT)	**Fireside Chat: Value Acceleration of IoT Connectivity with Edge AI** Irvind Ghai – Vice President, Silicon Labs
13:00 (CDT)	**LUNCH & NETWORKING**

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MAY 18 – MAY 21

Wi-Fi Innovation: Connecting Our Digital World

IRVING CONVENTION CENTER AT LAS COLINAS, DALLAS, USA

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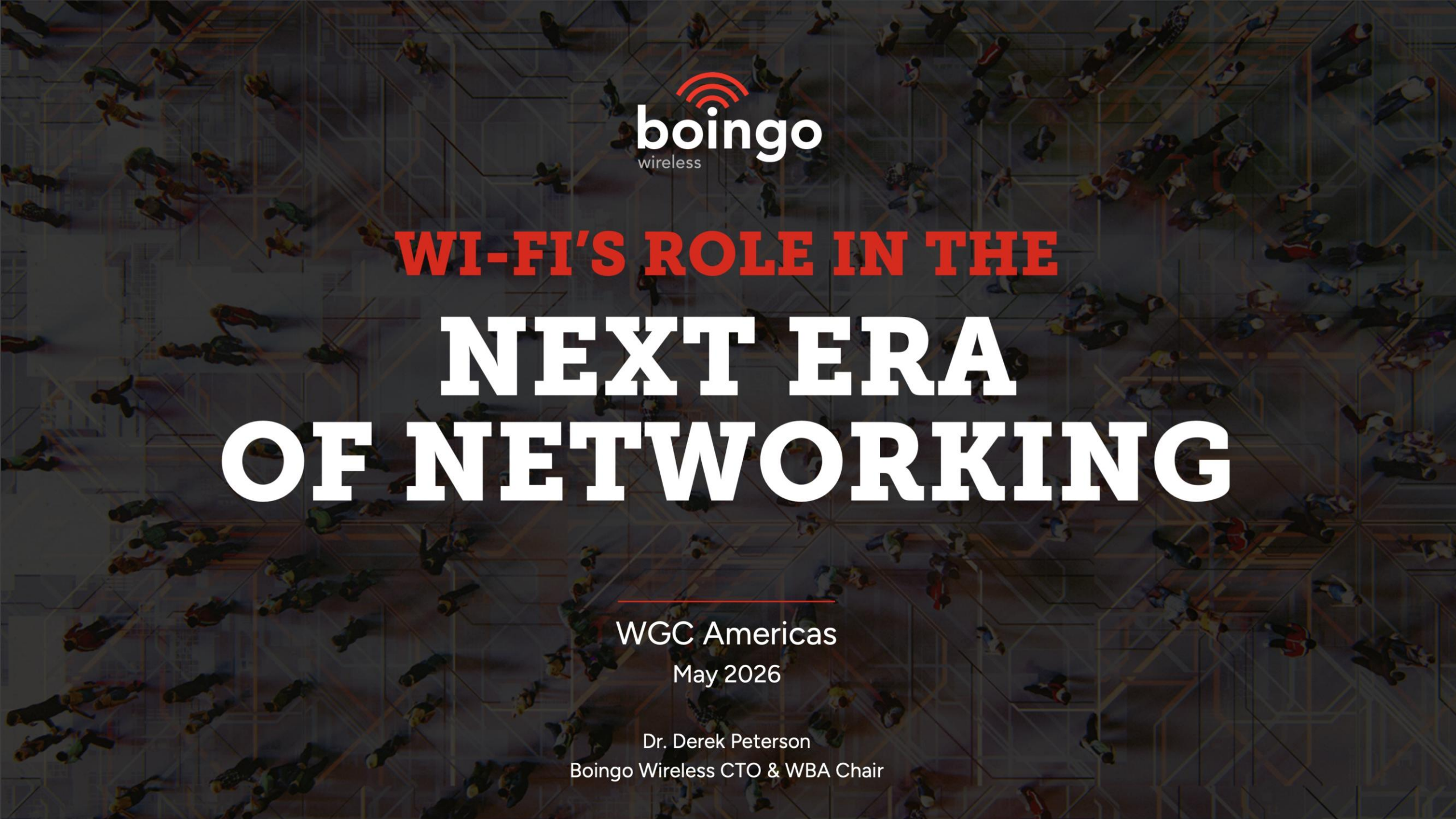
Dr Derek Peterson

CTO, Boingo Wireless

Wi-Fi's Role In the Next Era of Networking



WI-FI'S ROLE IN THE NEXT ERA OF NETWORKING

WGC Americas

May 2026

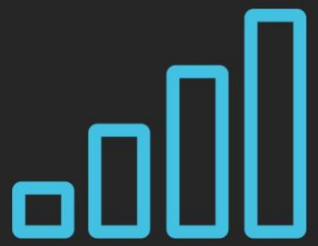
Dr. Derek Peterson

Boingo Wireless CTO & WBA Chair

Expectations are outpacing legacy technologies

It's a Multi-Access World

Today Wi-Fi is inevitably part of a multi-access infrastructure model.



Carrier Cellular Networks

Wi-Fi

Private 5G Networks

boingo wireless | 25 YEARS

Identity Capture

Much of what gets labeled a Wi-Fi problem is more accurately an onboarding issue.

For Wi-Fi and cellular to feel unified, the network needs to know who it’s serving, securely and without friction.

OpenRoaming Snapshot

Today

Primarily federates secure, automatic Wi-Fi network access.

- SIM/eSIM
- Certificates

Future

Extend federation to presence, proximity, authorization and device identity.

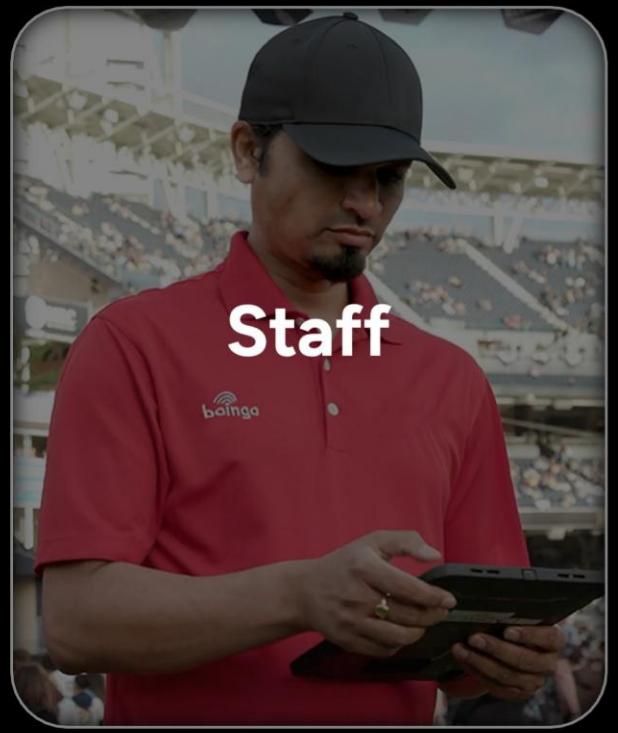
Asking “who are you, where are you and what are you allowed to do?”

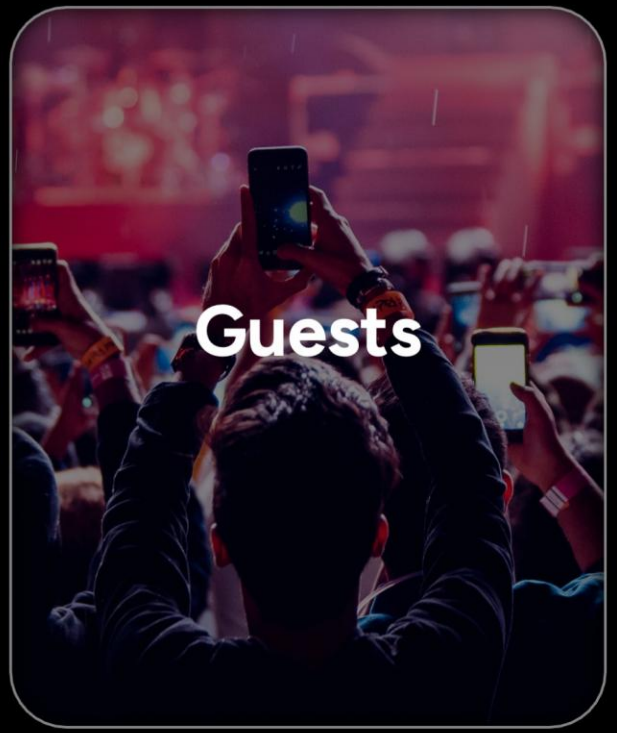
UBE/BLE/IoT are identity signals that augment SIM/certs, not replace it.

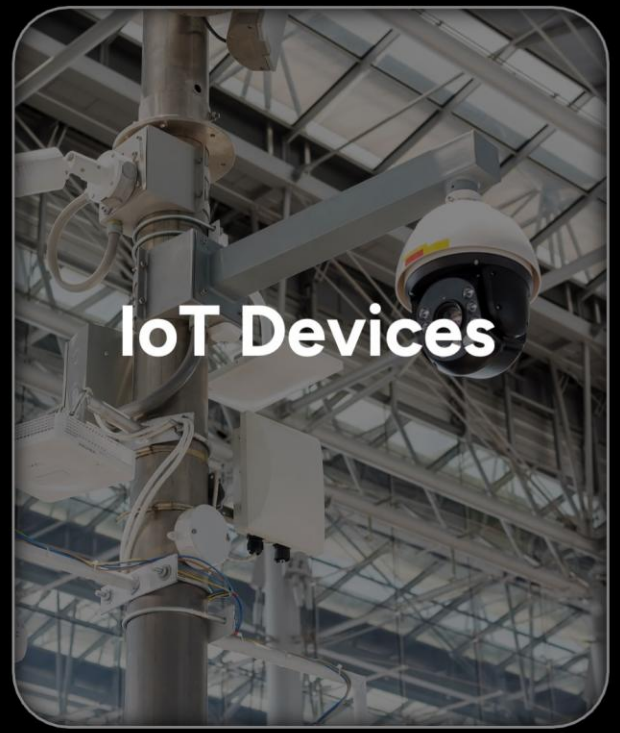
boingo wireless | 25 YEARS

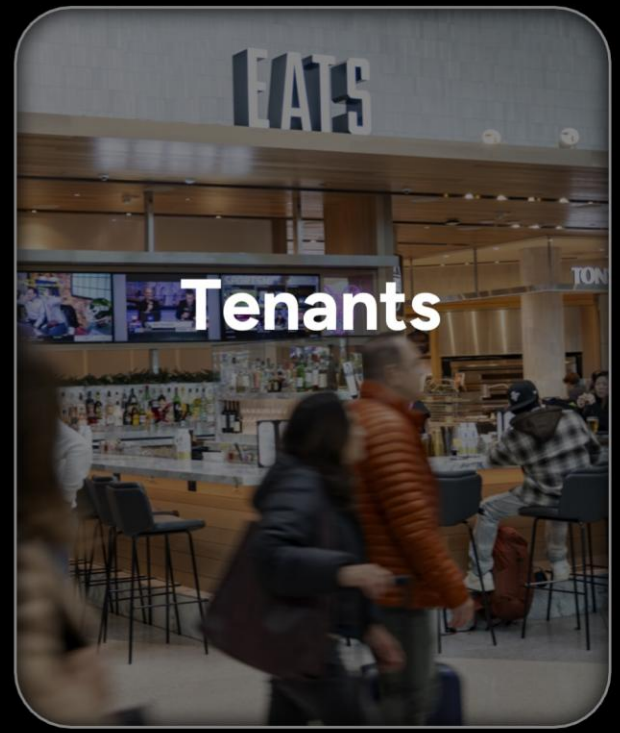
Mixed-Trust Environments

In large venues, four core populations share the network environment.
Each has a different access, security and policy profile.









Network Challenges

Peak Moments Expose Your Gaps

Peak moments expose points of login friction, policy confusion and support overload.

Maintaining Operations

Big venues often have limited maintenance windows, aging equipment and multi-vendor environments.

Securing Multi-Trust Environments

With guests, staff, payment systems and a growing number of IoT devices, security can become a complex, time-consuming layer.

boingo wireless | 25 YEARS

Boingo's Network Pillars

Design for the Experience and Desired Outcome

Identity Based Access

Built-In Security

Operational Maturity

boingo wireless | 25 YEARS

PILLAR

1

Design for the Experience

Design for the end user experience and the venue's desired outcome, not for speed test results alone.

- Capacity planning over peak throughput
- Define success in outcomes people understand
- Engineer for the busiest moments

boingo wireless | 25 YEARS

2

PILLAR

Identity Based Access

Identity based access reduces friction and increases security.

- Seamless onboarding
- Strong authentication without user effort
- Consistent policy across venues and partners

boingo wireless | 25 YEARS

3

PILLAR

Built-In Security

Security should be automatic, not heroic.

- Safer defaults for guests
- Protection and monitoring
- Segmentation by role and device

PILLAR

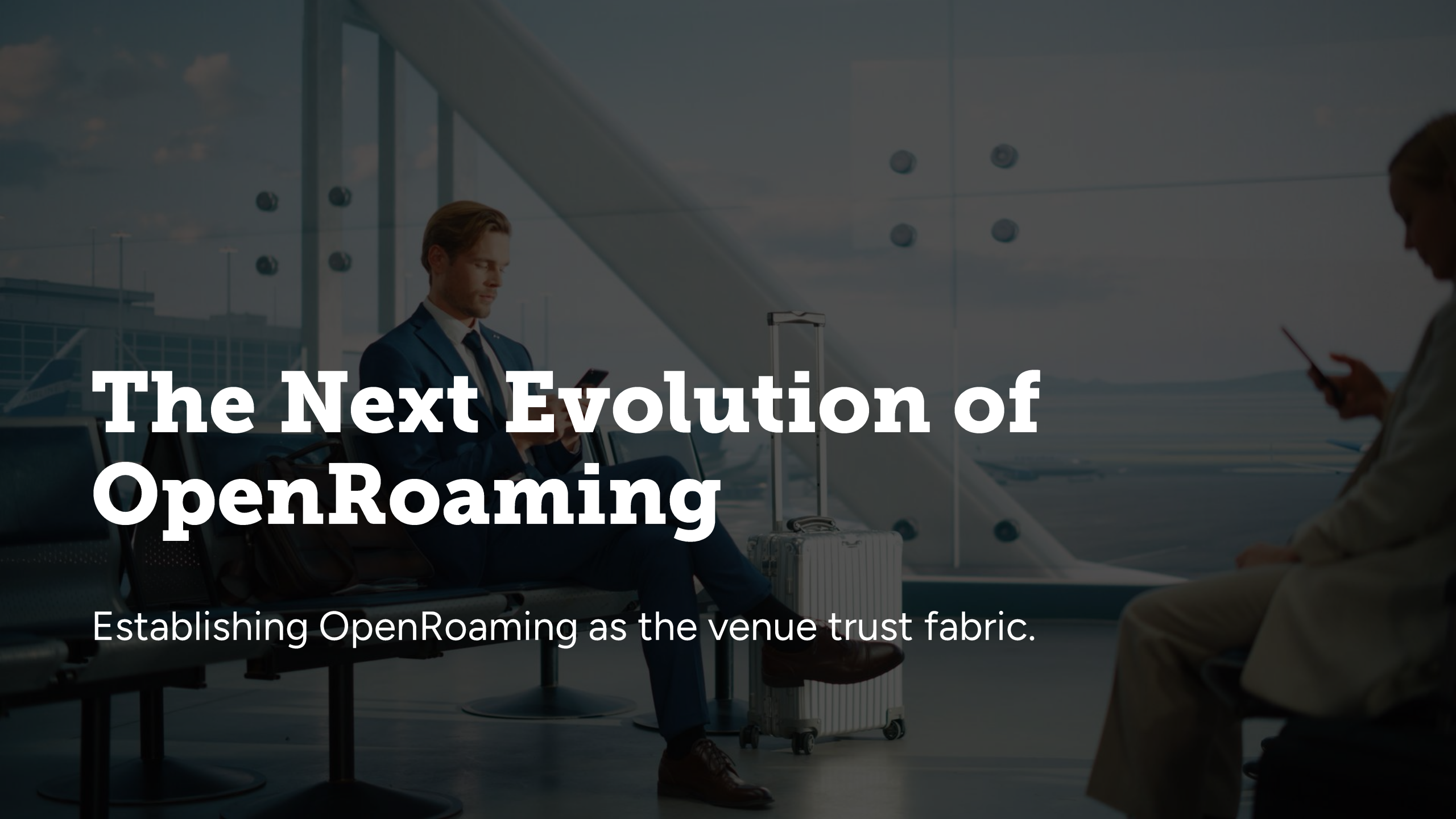
4

Operational Maturity

Operate Wi-Fi like critical infrastructure.

- 24x7 visibility and response
- Safe change control over time
- Shared playbooks across teams and vendors

boingo wireless | 25 YEARS



The Next Evolution of OpenRoaming

Establishing OpenRoaming as the venue trust fabric.

Identity Signals

A policy model for people and machines.

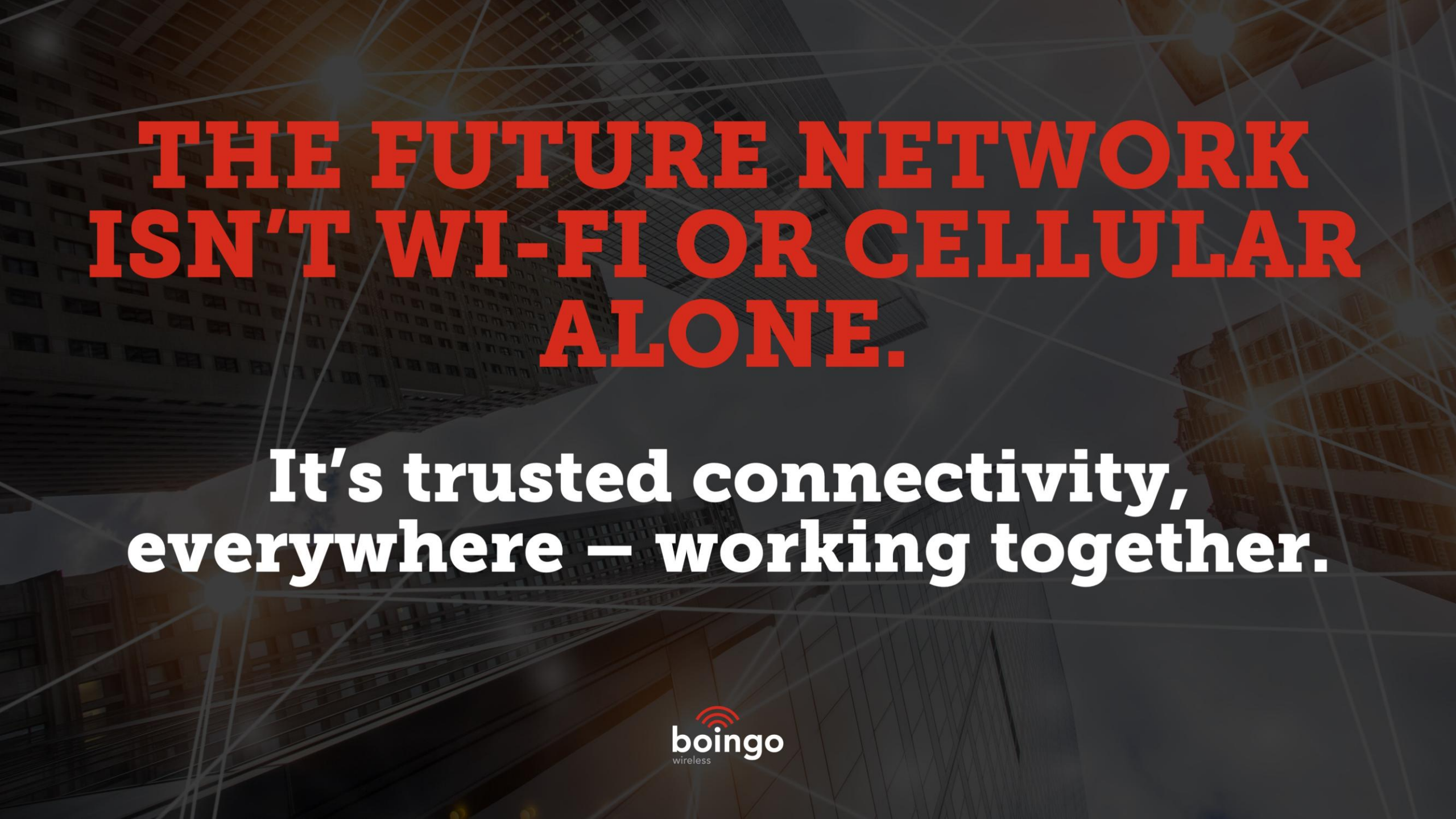
SIM / Certificates	Root identity (who are you)
IoT Certificates / eSIM	What device is being used
BLE	Presence (known device nearby)
UWB	Proximity (high-confidence location)
OpenRoaming	Federation + policy decisions


Interoperability is
how we scale.

Looking Ahead

Build networks that users don’t have to think about.

Operators	Treat Wi-Fi as core infrastructure integrated with identity.
Venues	Demand outcomes (reliability and security).
Vendors	Build for lifecycle and operability.
Standards	Make secure, scalable onboarding the default.


THE FUTURE NETWORK ISN'T WI-FI OR CELLULAR ALONE.
It's trusted connectivity, everywhere — working together.
boingo
wireless

Thank You

Let's connect

Derek Peterson
Boingo Wireless CTO
dpeterson@boingo.com

BOINGO
TWENTY-FIVE YEARS OF INNOVATION
2001-2026

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Matt MacPherson

Wireless CTO, Cisco

State of Wireless 2026: What It Means for Your Network

State of Wireless 2026: What It Means for Your Network

January 2026

Agenda

01 Report highlights

02 Recommendations

03 How Cisco can help

6,098

Wireless Professionals

30

Countries

Key regions

22% Americas

28% Europe, Middle East, and Africa

50% Asia Pacific

Investment momentum in wireless is accelerating

8 in 10 organizations have increased wireless investments in the past 4-5 years

1 in 3

Expect wireless budget increases of 50%+ over the next five years

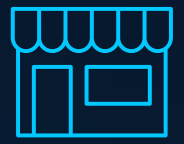
Wi-Fi ROI can go beyond connectivity

Simultaneous improvements across:

Customer engagement and experience

Product Delivery

Employee Productivity



Critical Infrastructure

Operational efficiency

The multiplier effect: one network, many outcomes

cisco

But four barriers converge to block return on investment in 2026

Legacy Wi-Fi infrastructure

Operational complexity beyond human scale

Intensifying wireless security threats

Growing talent gaps

cisco

Legacy Wi-Fi infrastructure

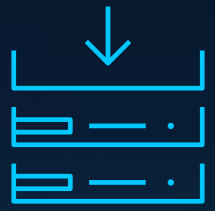
Only 19% of organizations are operating Wi-Fi 6E or 7

And around half are using legacy Wi-Fi

Wi-Fi 5	Wi-Fi 6	Wi-Fi 6E	Wi-Fi 7
43%	19%	12%	7%

Organizations with legacy Wi-Fi infrastructure

Are less likely to achieve strong ROI



Struggle with client scale

Cannot support high-bandwidth applications

Addressing these issues is the path to unlocking ROI

Legacy Wi-Fi infrastructure obstructs ROI growth

Operational complexity beyond human scale

Intensifying wireless security threats

Growing talent gaps

cisco

Operational complexity is overwhelming current capabilities

Operational complexity beyond human scale

Say operational complexity is increasing

64% Expect ticket resolution times to increase

55% Spend most of their time on reactive troubleshooting

Result is less time for training, modernization, and strategic initiatives.

When operational complexity rises, the business ultimately feels the impact.

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Lack of visibility exacerbates complexity

Operational complexity beyond human scale

Report visibility gaps when troubleshooting

Leading blindspots

#1 Poor client visibility

#2 Poor application visibility

#3 Poor packet visibility

cisco

Operational Complexity? AI is the answer

Operational complexity beyond human scale

Believe AI-driven automation will simplify operations

Adoption reality gap...

AI usage by organization

29% for managing wireless tickets

29% for security monitoring and response

23% for planning and provisioning

Legacy Wi-Fi infrastructure obstructs ROI growth

Operational complexity beyond human scale

Intensifying wireless security threats

Growing talent gaps

cisco

AI and IOT accelerate wireless security threats

And security modernization faces cross-organizational challenges

#1 Implementation complexity

#2 Legacy infrastructure

#3 Performance Concerns

The impact goes beyond unauthorized access. It's about operational survival.

3 in 5 saw financial losses from security incidents in the last year

50% of those saw financial losses of over $1m

1 in 3 lost customer trust

1 in 3 faced regulatory penalties

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Legacy Wi-Fi infrastructure obstructs ROI growth

Operational complexity beyond human scale

Intensifying wireless security threats

Growing talent gaps

cisco

The growing talent gap is more than an HR issue

Growing talent gaps

of organizations
struggle to fill wireless roles

The cost of vacancies

- Higher operating costs
- Lower Morale
- Reduced innovation
- More security failures

AI is the #1 driver for each operational barrier

#1

Driver of operational complexity:
AI workloads

#2 Security risks

#3 Bandwidth demand and unpredictability

#1

Security threat:
AI generated attacks

#2 Unmanaged devices

#3 Increased usage of IoT

#1

Recruitment challenge:
AI skills

#2 Internal budget constraints

#3 Geographic limitations and remote work demand

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Inversely, AI is empowering IT teams with

Significant time savings

Fewer wireless tickets

Faster wireless ticket resolution

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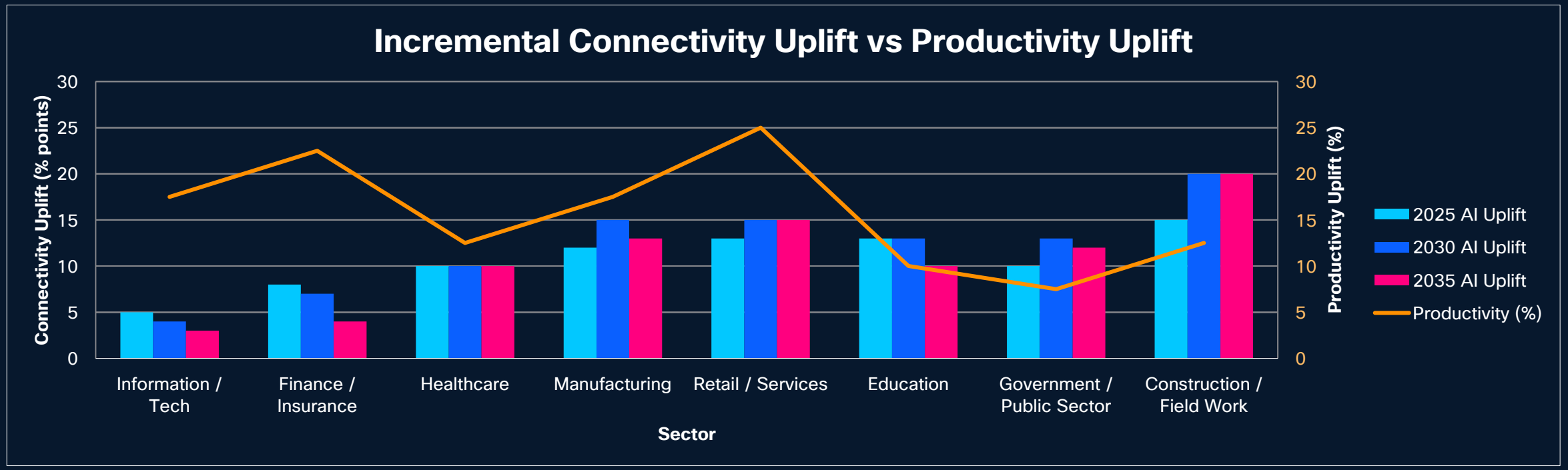
AI Megatrend Impact – connectivity uplift

Time Spent Connected for Work



Sector	Main Drivers for AI Uplift	Trend
Information / Tech	Uplift driven by coding assistants, DevOps automation, cloud inference, and edge workloads.	Smaller gains as saturation nears 100%.
Finance / Insurance	Fraud detection, compliance monitoring, algorithmic trading, support. Continuous low-latency feeds required.	Strong uplift early, tapering as saturation is reached.
Healthcare	Telemedicine, diagnostics, imaging, drug discovery, patient monitoring. Operations require reliable bandwidth.	Steady +10pp uplift as offline sites digitize.
Manufacturing	AI enables predictive maintenance, robotics coordination, digital twins, and quality inspection.	Connectivity demand rises with Industry 4.0 rollouts, peaking ~2030.
Retail / Services	AI for personalization, inventory optimization, cashier-less checkout, logistics.	Uplift remains high as small retailers and restaurants digitize operations.
Education	AI tutors, adaptive learning, virtual labs, proctoring tools. Strong early uplift.	Slight taper by 2035 as equity gaps persist but overall digital reliance nears 100%.
Government / Public Sector	AI in citizen services, e-gov, smart cities, and security analytics.	Slower adoption curve, steady uplift as services digitize by 2030.
Construction / Field Work	Largest uplift. AI-driven drone inspection, AR/VR overlays, safety monitoring, project digital twins.	Traditionally offline tasks move online, requiring real-time connectivity.

This is the wireless AI paradox:

AI is both the primary source of escalating challenges and, the leading driver for wireless ROI and simplicity.

The paradox matters because it connects the barriers to ROI

So overcoming these barriers one-by-one leads to incremental gains

Legacy Wi-Fi infrastructure

Operational complexity beyond human scale

Intensifying wireless security threats

Growing talent gaps

cisco

Overcoming these barriers simultaneously resolves the paradox and unlocks ROI

Refresh legacy infrastructure

Simplify Operations

Mitigate wireless security threats

Address talent gaps

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Organizations that take a holistic approach...

4X

More likely to achieve strong ROI from wireless

63%

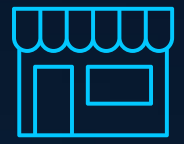
Higher ROI on wireless investments

And a holistic approach drives the multiplier effect

Customer engagement and experience

Product Delivery

Employee Productivity



Critical Infrastructure

Operational efficiency

One network, many outcomes

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The Resolution:
Recommendations for Accelerating ROI

01

Accelerate Wi-Fi refresh timeline

02

Get on the path to AI + automation

03

Prioritize holistic security modernization

04

Build and enhance wireless talent

cisco

Recommendation 01

Accelerate Wi-Fi Refresh Timeline

Organizations with Wi-Fi 6E and 7 report:

+38%

Higher capacity

+41%

Improved ability to support bandwidth intensive applications

+33%

Higher scalability across sites

Compared to organizations with legacy Wi-Fi

Wi-Fi refresh decisions should be tied to business outcomes, not just hardware lifecycles

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Recommendation 02

Get on the path to AI + Automation

850+

hours freed up
per year, per team member

12%

faster ticket
resolution times

Recommendation 03

Prioritize holistic security modernization

Lower financial losses from security incidents

Improved ROI from wireless deployments

More likely to predict security failures

Recommendation 4

Build and enhance wireless talent

Highly certified teams modernize faster

Implementing AgenticOps could attract new talent

AgenticOps enables IT to become strategic

How can Cisco help?

The Cisco Advantage

Cisco clears the path to the multiplier effect with: End-to-end, full stack networking solutions powered by AgenticOps

Organizations who spend most of their wireless budget on Cisco see heightened benefits:

23%

Lower financial losses from wireless issues

22%

Lower financial losses from wireless security incidents

17%

Faster time to ticket resolution

Recap

01

Wireless is becoming a strategic platform for the AI era

Investment is accelerating, but ROI is constrained by legacy infrastructure, operational complexity, security threats, and talent gaps.

02

Organizations that address these barriers together unlock stronger ROI

- Accelerate Wi-Fi modernization
- Adopt AI-driven operations
- Modernize security holistically
- Invest in wireless talent

03

Cisco helps organizations implement this with an AI-ready secure network

- Simplified operations powered by AgenticOps
- Security fused into the network
- Scalable infrastructure ready for AI

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Download the Cisco State of Wireless 2026 report to go deeper and plan your next steps

http://cs.co/stateofwireless


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Dr. Sarper Gokturk

VP Innovation, Airties

Inside the Experience Economy: How Software Is Redefining Home Wi-Fi

Inside the Experience Economy:

How Software is Redefining Home Wi-Fi

Sarper Gokturk, Ph.D.

VP of Innovations

Three strategic questions for Broadband Providers

1

47% of Subscribers churn because of bad experience (Airties research)

How do you become the best BB Experience provider?

2

80% of Telcos say new revenue streams are a top priority (Omdia)

What new services do you Launch to unlock new revenue?

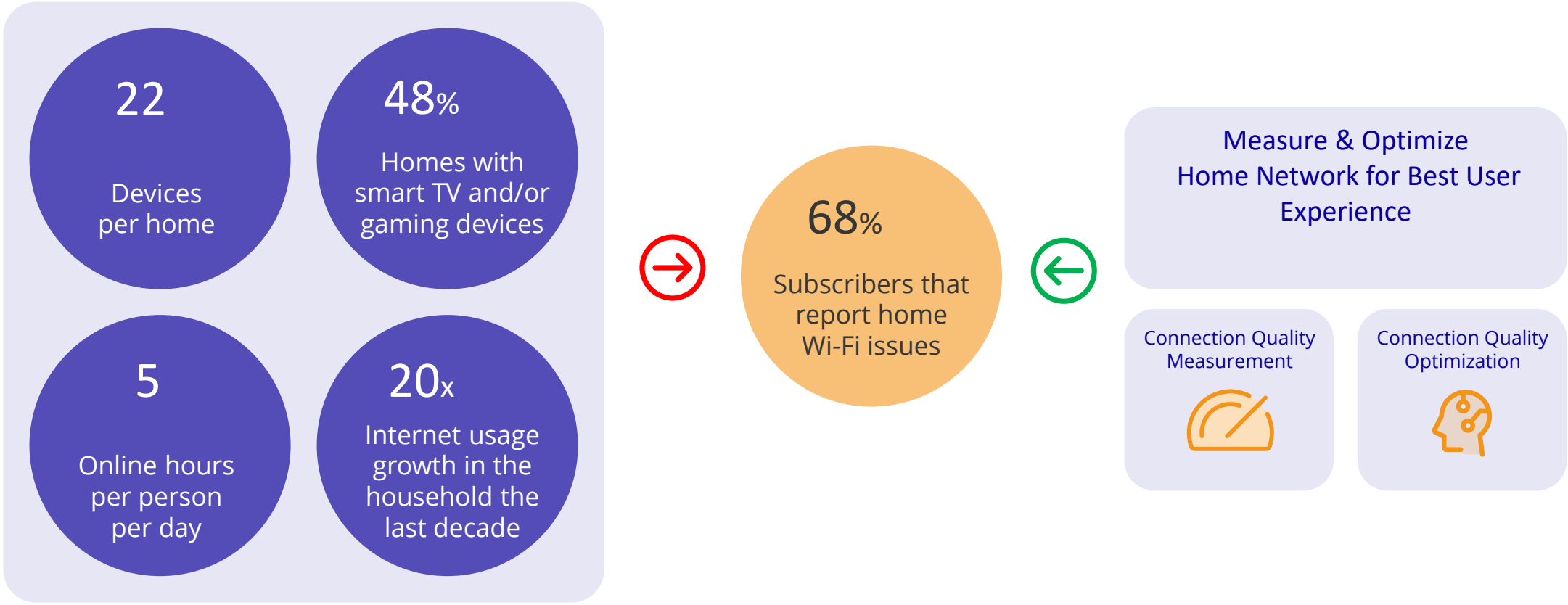
3

74% of Telcos are implementing Agentic AI (McKinsey Feb 26)

Where do you focus in implementing Agentic AI to ensure ROI?

1

Measure and Optimize Home Network Experience

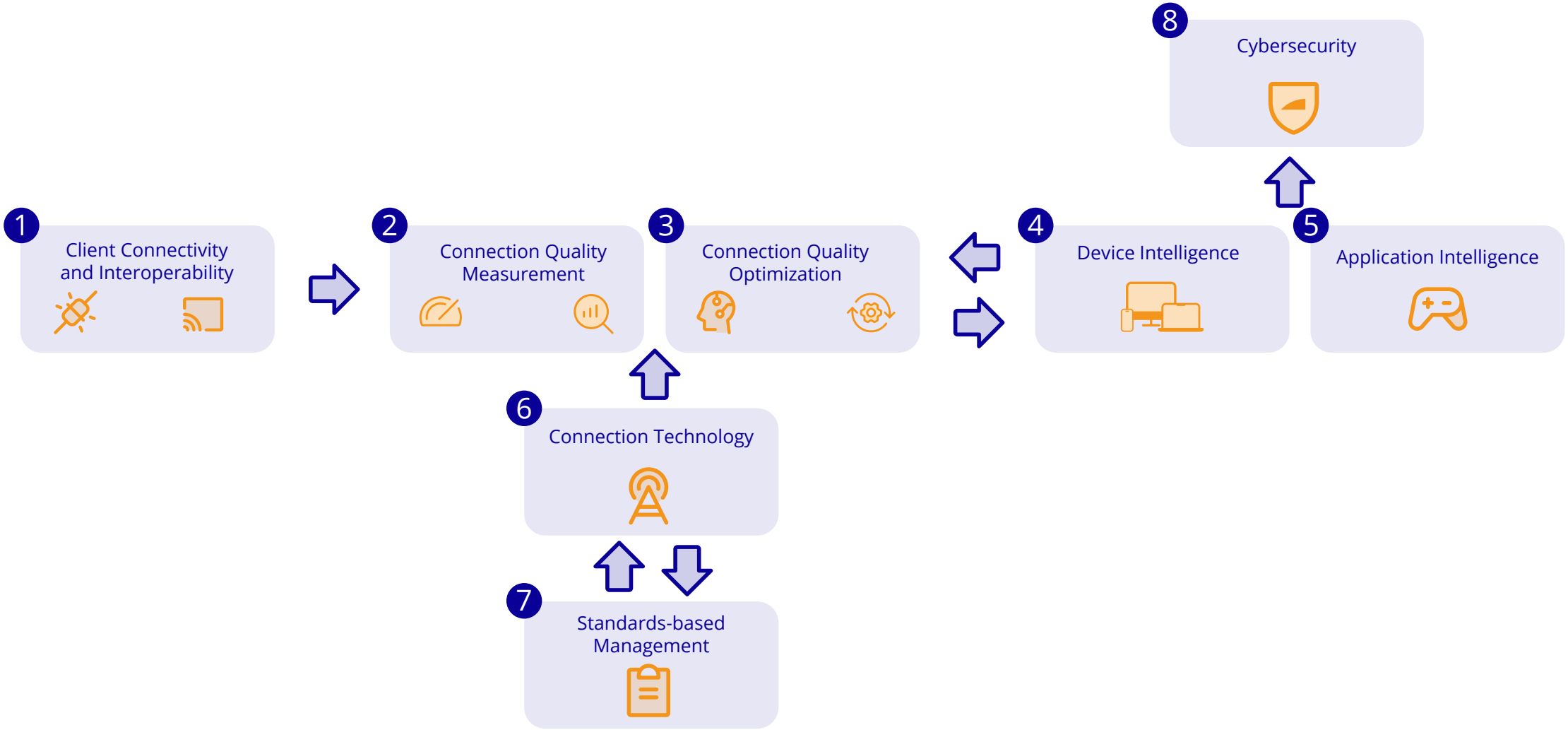


* USA data

2

Provide Value Generating Services

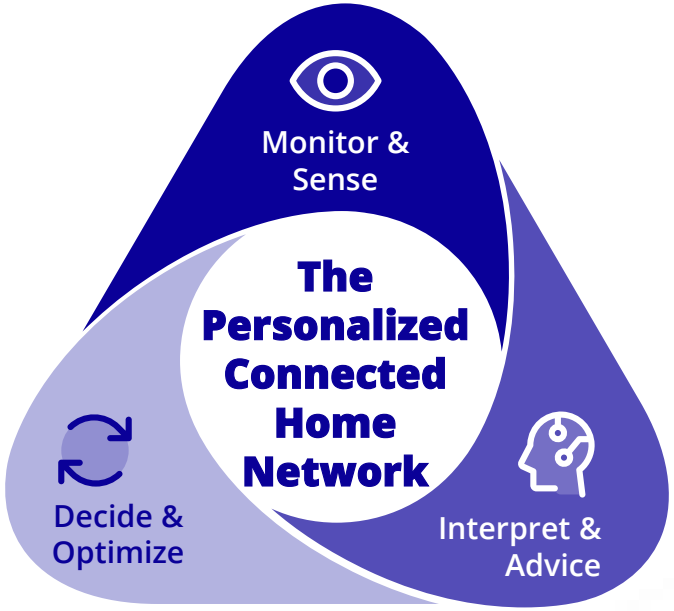
High Speed doesn’t always mean great experience



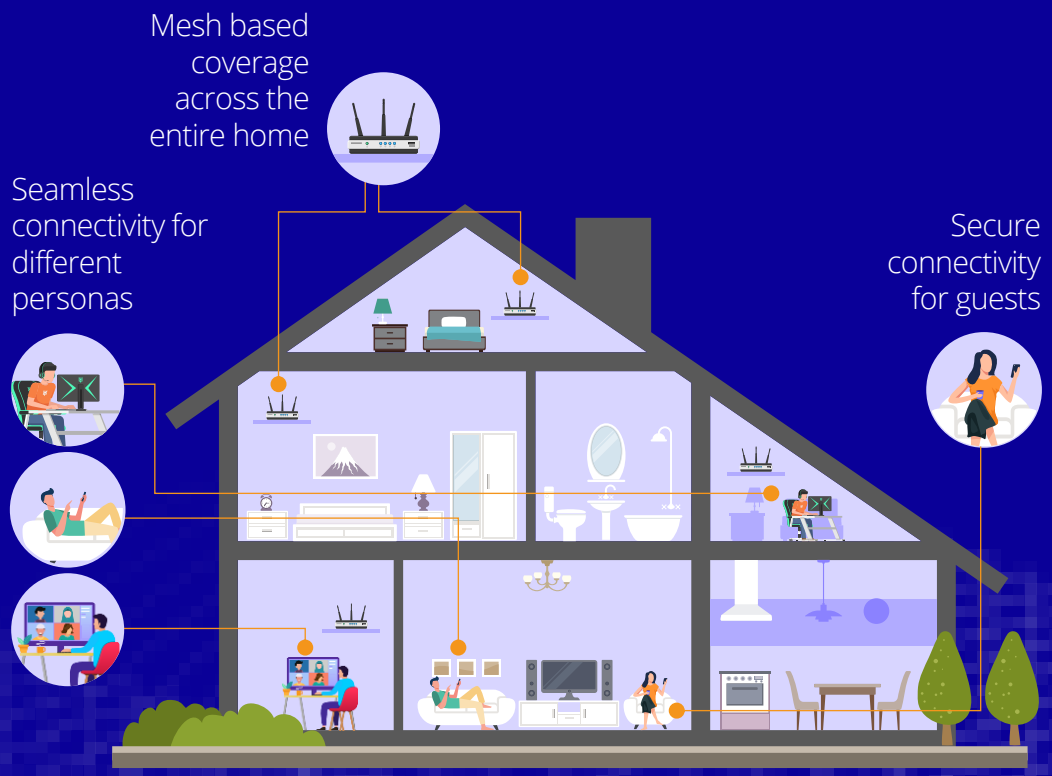
3

Personalize Experience with AI

Every home is unique in its needs and challenges



1. Monitor and Sense for early detection
2. Optimize experience through AI-based new services
3. Intelligence layer to provide actionable insights for AI-based services



Airties Technology Overview

AI-powered Personalized Experience

Features & Capabilities

Connectivity Optimization

- Multi-network Support
- Mesh Topology Optimization
- Channel & Steering Management
- Hyper-Personalization

Business & Operational Insights

- Connectivity Experience Index
- Device Intelligence
- Broadband Health Insights
- Analytics-powered Marketing / Care Ops / Network Ops
- Application Intelligence
- FWA Insights

Value Added Services

- Malware & Threat Protection
- Wi-Fi Monetization
- Parental Controls & Content Filtering

User Interfaces

- Management Dashboards
- Admin Portals
- Careview
- Home & Pro Companion Apps

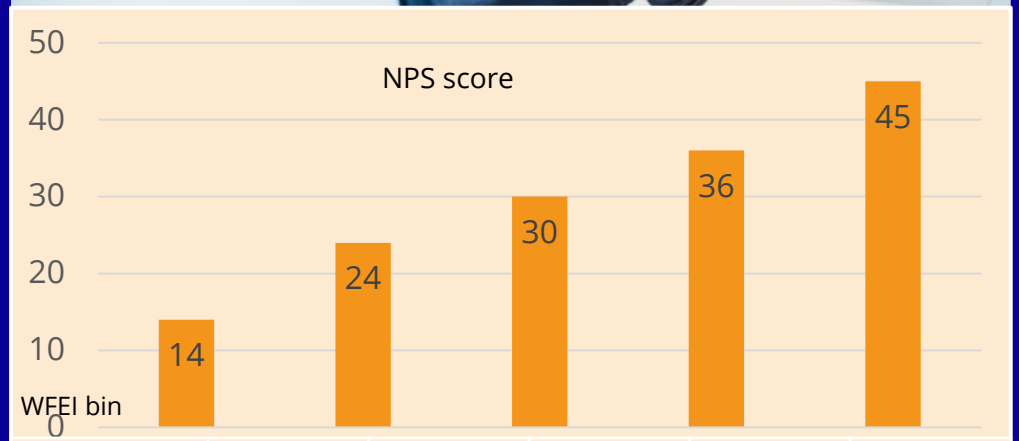
Operator boosts NPS score with 31pts

AI correlates Wi-Fi experience and NPS

Challenge:
- High churn by poor in-home Wi-Fi experience
- Difficult to measure true experience in the home

Solution:
- AI correlates Wi-Fi Experience to NPS score
- Device and application-level insight and autonomous resolution
- Add Mesh to remove dead zones and interference

Outcome:
- 56K fewer disconnects PA, 7.5K subscribers retained
- 52.4% reduction in field related issues
- + 5M in revenue a year



NPS Score	14.0	24.1	30.3	36.4	45.3
Promoters	44.7%	49.1%	52.6%	56.2%	60.2%
Passive	24.7%	25.9%	25.1%	24.0%	23.9%
Detractors	30.7%	25.0%	22.3%	19.8%	15.4%

Detractors reduced from 30.7% to 15.4%, NPS up from 14 to 45.3

Who We Are

With 21 years of Wi-Fi and connectivity expertise, Airties is the preferred partner of leading ISPs in connectivity experience management.

50M+
Households managed to date by Airties Cloud

22
Years perfecting Wi-Fi technologies

400+
Employees of 18 nationalities

80%
Employees in R&D

130+
Different CPE platforms integrated

40+
Wi-Fi related patents

HQ
in **Paris/France**
Board/Sales/Marketing

Backed
by Providence Private Equity Partners

Our Customers

AT&T, vodafone, T-Mobile, COX, proximus, Deutsche Telekom, bouygues telecom, nuuday, WAOO, Telia, TeleCentro, astro, Telstra, altice, QUICKLINE, BELONG, Cellcom, turknet, BT, SFR, Xplore

In summary

Transform the connected Home experience

Unlock new revenue streams

Show ROI in AI

Thank you

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Irvind Ghai

Vice President, Silicon Labs

Fireside Chat: Value Acceleration of IoT Connectivity with Edge AI

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LUNCH & NETWORKING
BE BACK IN 60 MINUTES AT
2.00 PM CST

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Pedro Mouta (Moderator)

Senior Program Manager, Wireless Broadband Alliance

Moderator Introduction

Wireless Global Congress Americas

OPERATOR PERSPECTIVES FOR SMARTER HOMES AND SMARTER NETWORKS

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Time	Presentation
14:00 PM (CDT)	**Moderator Introduction** Pedro Mouta, Senior Program Manager, Wireless Broadband Alliance
14:05 PM (CDT)	**Universal Access Management NetExperience: Your Competitive Edge in Modern Wi-Fi** Jack Raynor- President, NetExperience
14:25 PM (CDT)	**A Neutral Exchange for Wi-Fi Offload** Mark Carter – Chief Operating Officer, Uplink Bruno Tomas – CTO, Wireless Broadband Alliance
14:40 PM (CDT)	**Delivering Standards for WI-Fi 8 and 9 and Impacts for Tomorrow's Consumers** Robert Stacey – Working Group Chair, IEEE
14:55 PM (CDT)	**What does Smarter Homes and Smarter Networks Mean in 2026** Hannah Greenberg – Eleven Software David Hand– Granite Communications Sarper Gokturk – Airties Jack Raynor – NetExperience George Hechtman - Moderator, Hechtman Ventures
15:40 PM (CDT)	**COFFEE & NETWORKING**

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Jack Raynor

President, NetExperience

Universal **Converged** Access Management

NetExperience: Your Competitive Edge in Modern Wi-Fi

NetExperience

Universal Converged Access Management

NetExperience: Your Competitive Edge in Modern Wi-Fi

Jack Raynor

President, NetExperience

May 2026

NetExperience

The Wi-Fi Industry Problem vs. The Solution

⚠The "Legacy Tax" Problem

- 🚫 Often plagued by legacy tech debt
- 🚫 Severe Vendor lock-in
- 🚫 High licensing costs (The "Tax")

✅The Solution

- ✅ Open Architecture: Freedom from hardware lock-in
- ✅ Modern Tech Stack: Faster feature velocity & AI integration
- ✅ Significant cost-value benefits vs traditional vendors

OpenWiFi: Community-driven foundation & velocity.

NetExperience

Hardware Freedom: The Power of OpenLAN

- **Zero Vendor Lock-in:** Based on OpenWiFi standards.
- **Vast Ecosystem:** Supports a diverse set of TIP OpenLAN Access Points (APs) and Switches.
- **Future Proof:** Supports Wi-Fi 6, Wi-Fi 6E, and Wi-Fi 7.
- **Unified Management:** Manage APs, switches & gateways.

Choose the best hardware for any deployment and optimize CAPEX/OPEX.

Edge-corE NETWORKS

Actiontec

CyberTAN
CyberTAN technology, Inc.

emplus

Asterfusion

NetExperience

Our 6-Year Journey to Create a Level Playing Field

2020
Architecting the Modern, Cloud-Native

2021
OpenSync 1.0 Launch

2022
uCentral 2.0 Platform

2023
Initial MDU Field Deployments

2024
Converged Switch Management

2025
Feature Parity

2026
Strategic Acceleration

NetExperience

Cloud-Native Architecture: Agility & Scale

- Modern Kubernetes Microservices Architecture
- Cloud Agnostic: Runs on AWS, GCP, Azure, or OpenStack
- API Native: Open Platform for easy back-office integration
- Containerized, Elastic, Multitenant Architecture
- AI/ML Native (Not retro-fitted)

This foundation ensures proven availability, scalability, and quality.

NetExperience

Full-Stack Network Control and Expertise

WLAN Controller

- Auto Channel & Cell Size
- Client & Band Steering
- Mesh Capabilities
- Advanced QoS
- Radio Resource Management

Workflow Mgmt

- Location Hierarchy
- Configuration & Profiles
- Firmware Management
- Alarms, Analytics & History
- Troubleshooting Tools

Monetization

- Radius PSK (for MDUs)
- Location mPSK
- External Captive Portal
- OpenRoaming & Passpoint
- Billing Integration

Capitalizing on Market Friction

Proprietary Squeeze

External Scarcity: Global SoC and Memory shortages are driving lead times to 20+ weeks and causing price spikes.

Migration Debt: Forced vendor migration from legacy on-prem control planes to cloud is causing additional price increases for legacy users.

NetExperience Stability

Supply Agility: Multi-vendor silicon supply chains bypass the incumbent backlogs and single-vendor risk.

Cloud-Native ROI: Built from Day-1 as a horizontally scalable K8S platform. Stable TCO without forced migration costs.

NetExperience

Vertical Depth: Built for Multi-Tenant Services

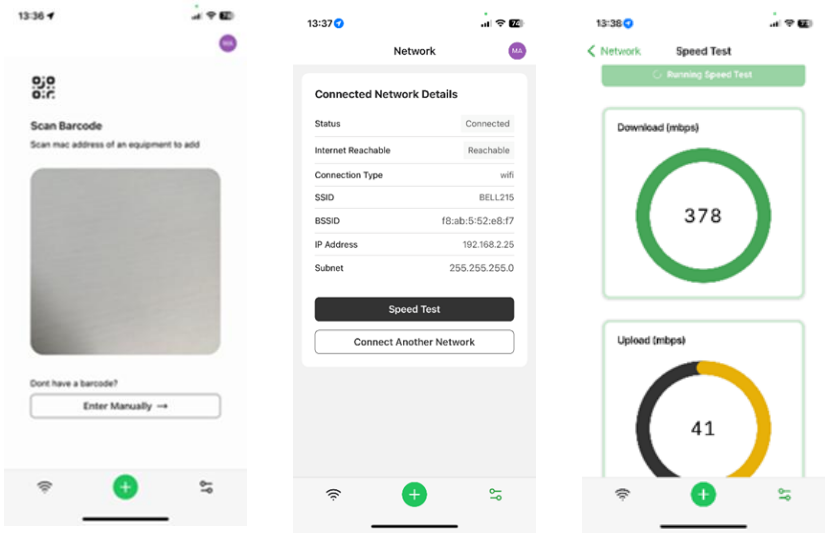
- **Superior Features:** Out-of-the-box support for MDU, Hospitality, and Schools.
- **Property Manager Portal:** Manages units, onboarding workflows, and delegation.
- **Resident Portal:** Enables tenant self-service for mPSK access, psk changes and guest SSID/control.
- **Simplified Access:** Supports Local or Radius based mPSK.

NetExperience

Mobile Apps for Deployment & Management

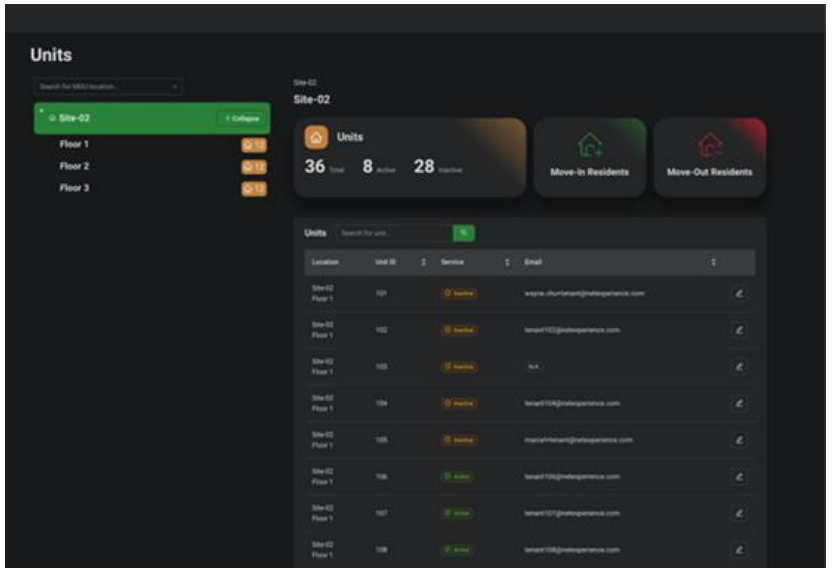
Installer App (For Technicians)

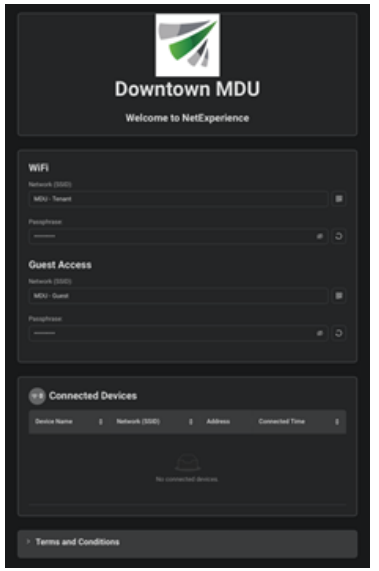
- Optimizes onboarding workflow.
- Enforces mandatory installation steps.
- Saves key data (timestamp, installer ID).



Network Mgmt App (For Admins)

- Identity-based secure login.
- No pre-configuration of APs required.
- Quick access to live AP and Switch status.



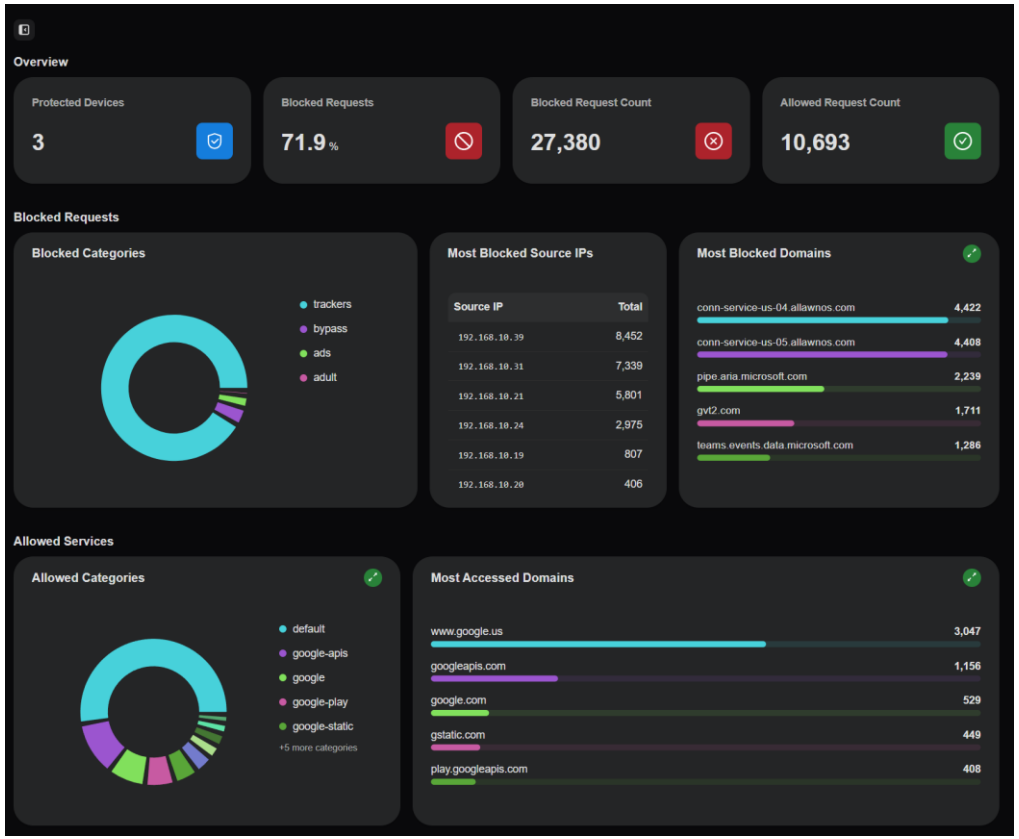


NetExperience

Security Game Changer: NetExperience SWG

Secure Wireless Gateway

- Provides Kernel-native content filtering
- Superior performance and lower latency than user-space apps
- Revenue Generator: Creates a high-margin Value Added Service (VAS)
- MDU Protection: Protects tenants from threats, right at the Edge of the network
- Privacy First: Telemetry Data Only (No User Data)
- Next-Gen DPI: Negligible Performance Impact



Universal Converged Access Management

Consolidating multiple network layers into a single management pane.

Fiber Stack

OLT & ONT / ONU

Direct management of the optical backhaul and termination nodes from the cloud.

Property Gateway

Router & Firewall

Integrated routing logic and stateful security policies at the property entrance.

Distribution

Enterprise Switch

Universal switching management for backhaul distribution and POE control.

The Edge

Wireless APs

High-performance OpenWiFi orchestration for the high-density wireless edge.

Carrier-Grade Resilience at Scale

Global Residential Footprint

Tier 1 Operations

Our architecture is being scaled for massive, nation-wide residential deployments. We manage vast networks with high-frequency telemetry, ensuring every node remains visible and secure.

- **Massively distributed cloud nodes.**
- **Real-time bidirectional telemetry.**
- **mTLS secured carrier-grade fabric.**

NetExperience

NetExperience

Next Steps & Q&A

NetExperience is the premier cloud-based management platform, built for tier-one carriers and MSPs, and proven for availability, scalability, and quality.

Contact us to start your Enterprise Wi-Fi journey today!

Jack Raynor

www.netexperience.com

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A Neutral Exchange for Wi-Fi Offload

Mark Carter

Chief Operating Officer,
Uplink

Bruno Tomas

CTO,
Wireless Broadband Alliance

The Dawn of
Virtual eSIM Offload

eSIM + OpenRoaming WiFi | Seamless Connectivity. Smarter Journeys.

OpenRoaming

eSIM PROVIDERS

Saily · Holafly · Roam · Mobilise · Freedom Telecom

VIRTUAL eSIM OFFLOAD

INTELLIGENT HANDOVER
CELLULAR ⇄ OPENROAMING WiFi

NO CLICKS. NO FRICTION.
JUST CONNECTIVITY.

OPENROAMING WiFi PROVIDERS

purple · CLOUD4WI · GUGLIELMO TECHNOLOGY PROVIDER · ADENTRO · IRONWIFI · City of Westminster

eSIM DATA PLAN

PREDICTABLE.
SECURE.
COST-EFFECTIVE.

OPENROAMING WiFi

CAPACITY WHERE
YOU NEED IT MOST.
INDOORS. OUTDOORS.
EVERYWHERE.

- SMARTER DATA USAGE
- BETTER INDOOR PERFORMANCE
- CONTINUOUS EXPERIENCE
- GREATER VALUE FOR VISITORS & LOCALS

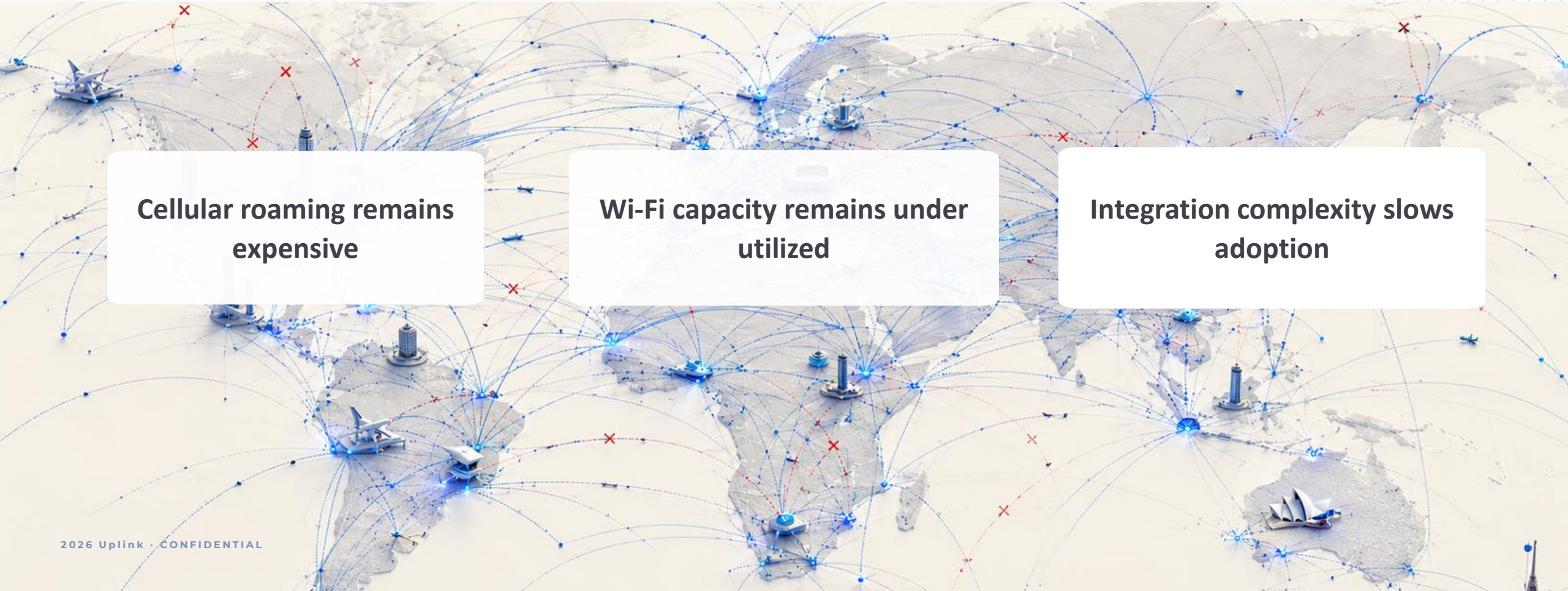
OpenRoaming Live
WGC Dallas

uplink | Wireless Broadband Alliance

The neutral exchange for Wi-Fi offload.

UPLINK · MAY 2026 · WBA WGC DALLAS

Massive Demand.
Fragmented Supply.



Cellular roaming remains expensive

Wi-Fi capacity remains under utilized

Integration complexity slows adoption

The Market Conditions have finally aligned

The Market Was Missing Three Things

Uplink: a managed marketplace, not an Open Exchange

EVERY OPERATOR

- Mobile carriers
- MVNOs
- Travel eSIMs
- Enterprise mobility

uplink

MATCHES · PRICES · METERS · SETTLES

Aggregates demand

Abstracts supply

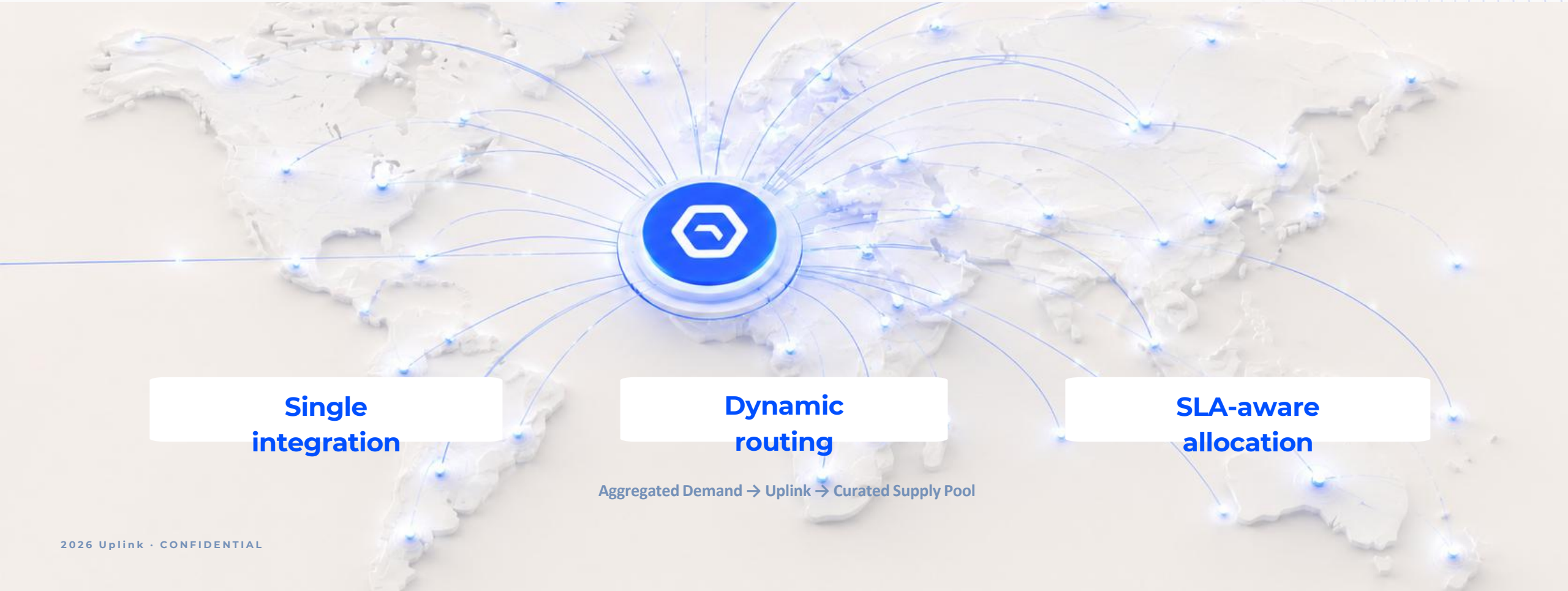
Protects pricing

Simplifies settlements

EVERY VENUE

- Retail & big-box
- Airports, stadiums & transit
- Cities & public Wi-Fi
- Hotels & hospitality

Simple Integration:
World-wide Reach



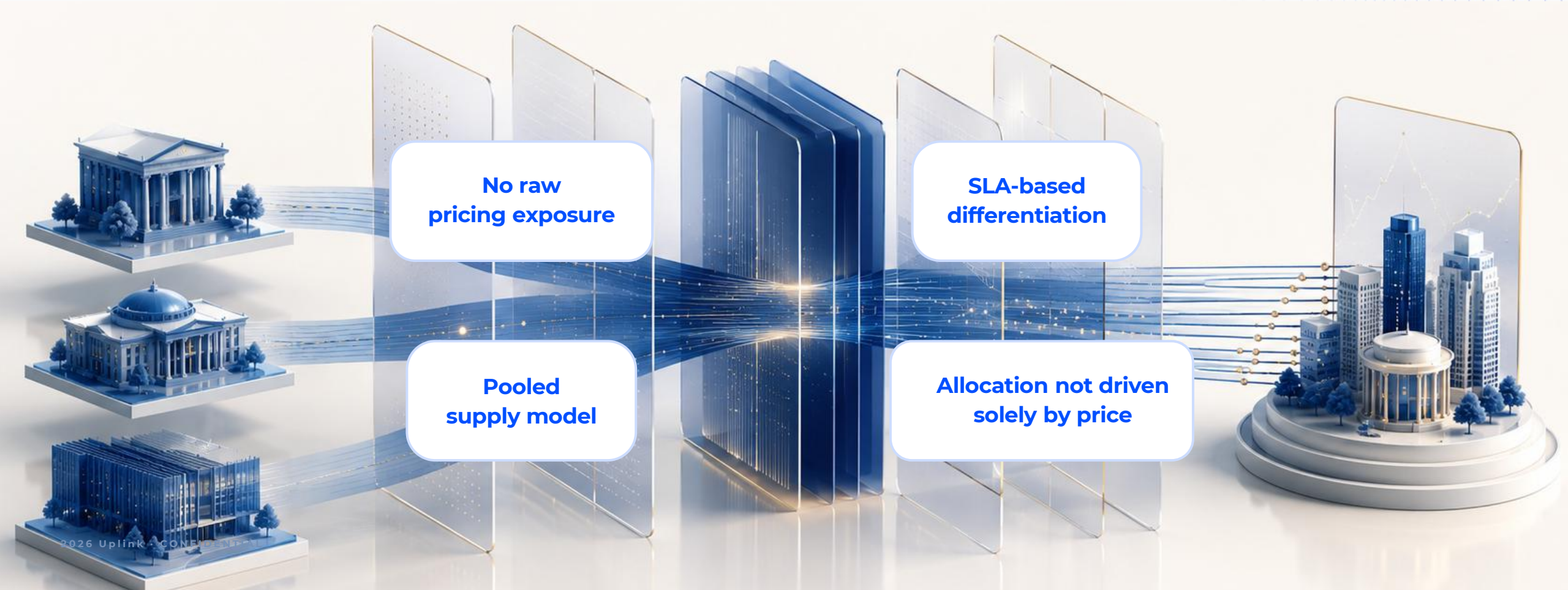
Single integration

Dynamic routing

SLA-aware allocation

Aggregated Demand → Uplink → Curated Supply Pool

Protecting Supplier Economics



Building the Economic Layer

Align demand and supply economics

Simplify roaming operations

Unlock underutilised Wi-Fi capacity

Create scalable marketplace economics

uplink | Wireless Broadband Alliance

The neutral exchange for Wi-Fi offload.

UPLINK · MAY 2026 · WBA WGC AMERICAS

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Wireless Global Congress Americas

Robert Stacey

Working Group Chair, IEEE

Delivering Standards for Wi-Fi 8 and 9 and Impacts for Tomorrow's Consumers

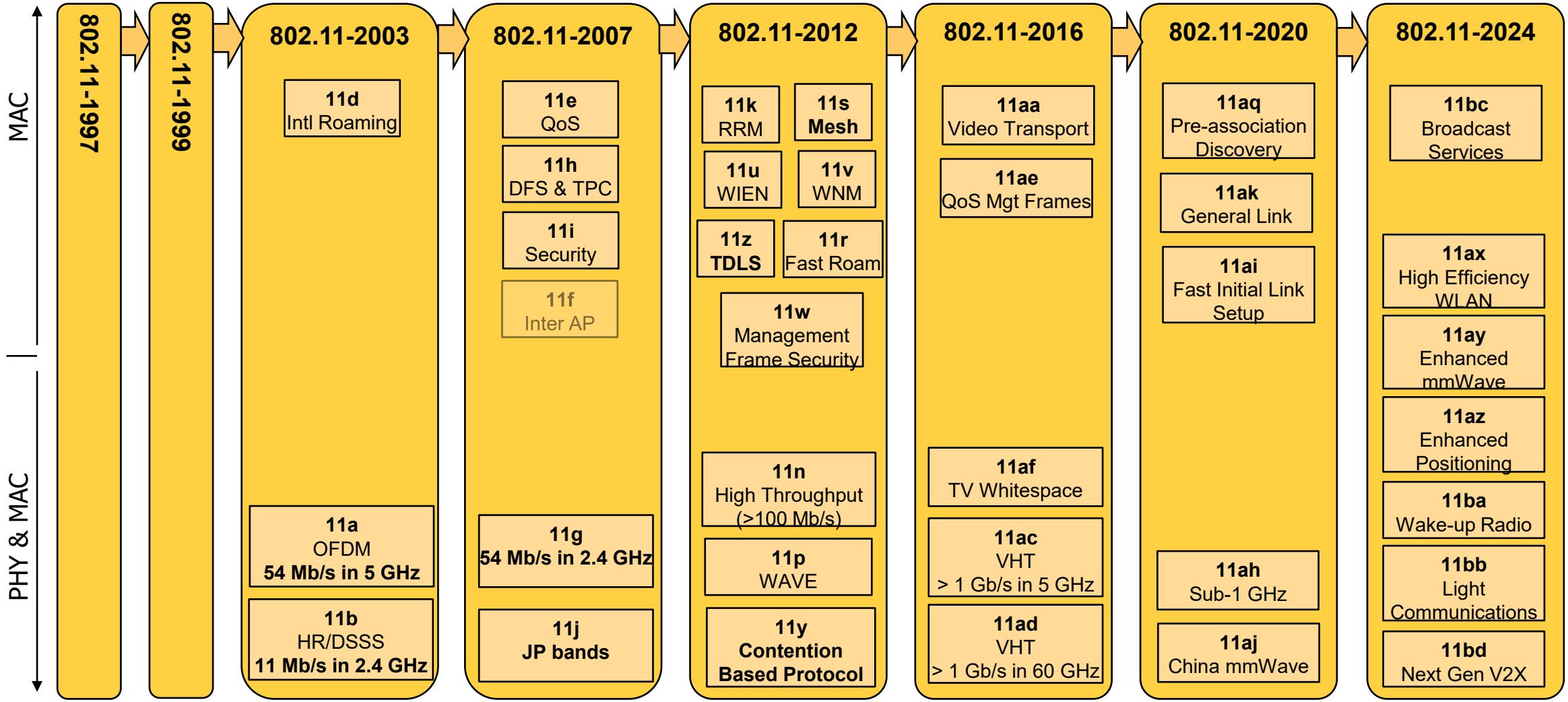
Delivering standards for Wi-Fi 8 & 9

Robert Stacey
IEEE 802.11 Working Group Chair
Senior Principal Engineer @ Intel Corporation

Overview

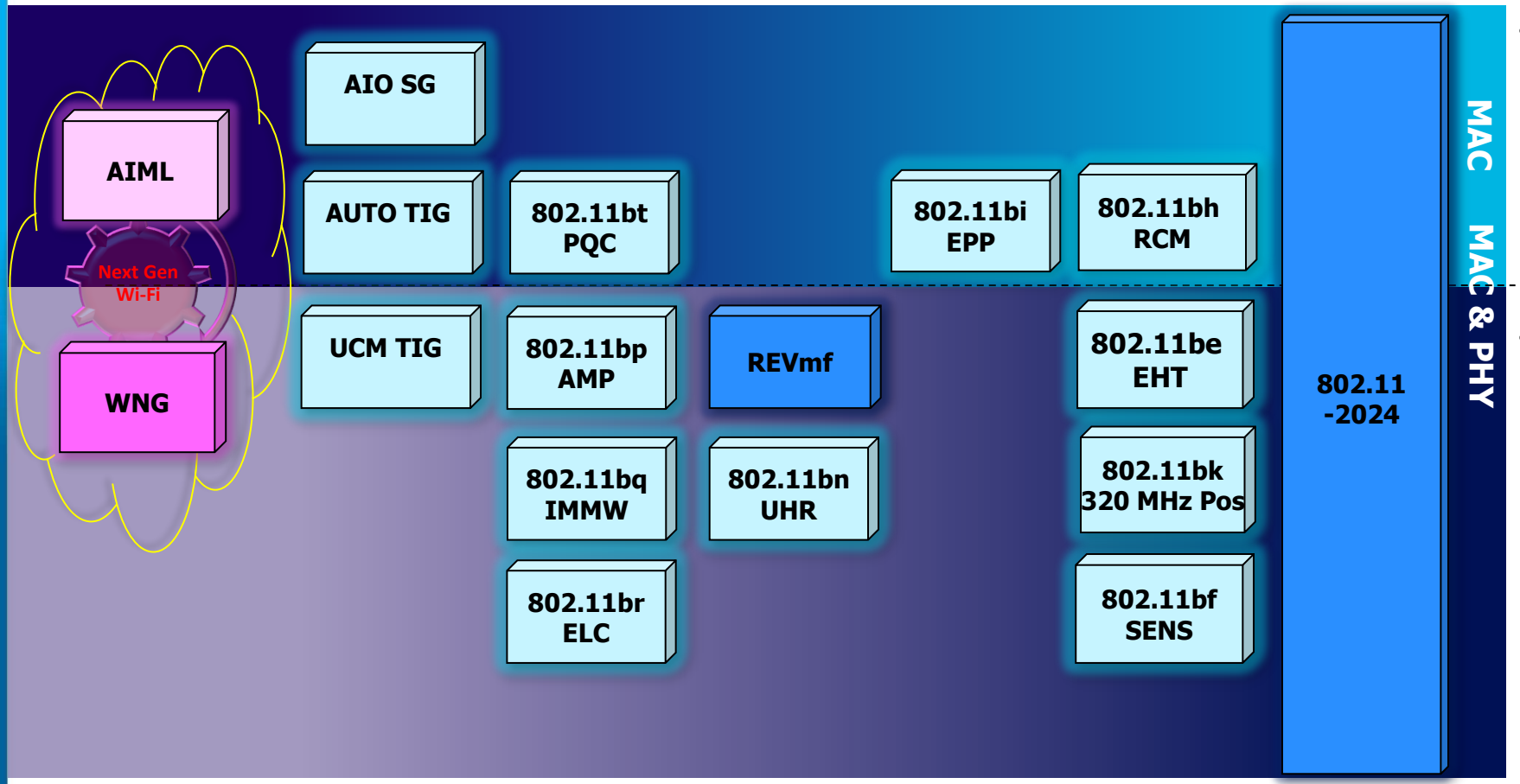
- A brief history of the 802.11 standard
- A review of current activity
- A review of some 802.11bn features
- An overview of ongoing work in other 802.11 groups
- Discussions around Wi-Fi 9

802.11 revision history



IEEE

802.11 standards pipeline



Topic Interest Groups (TIG)/Study Groups(SG)

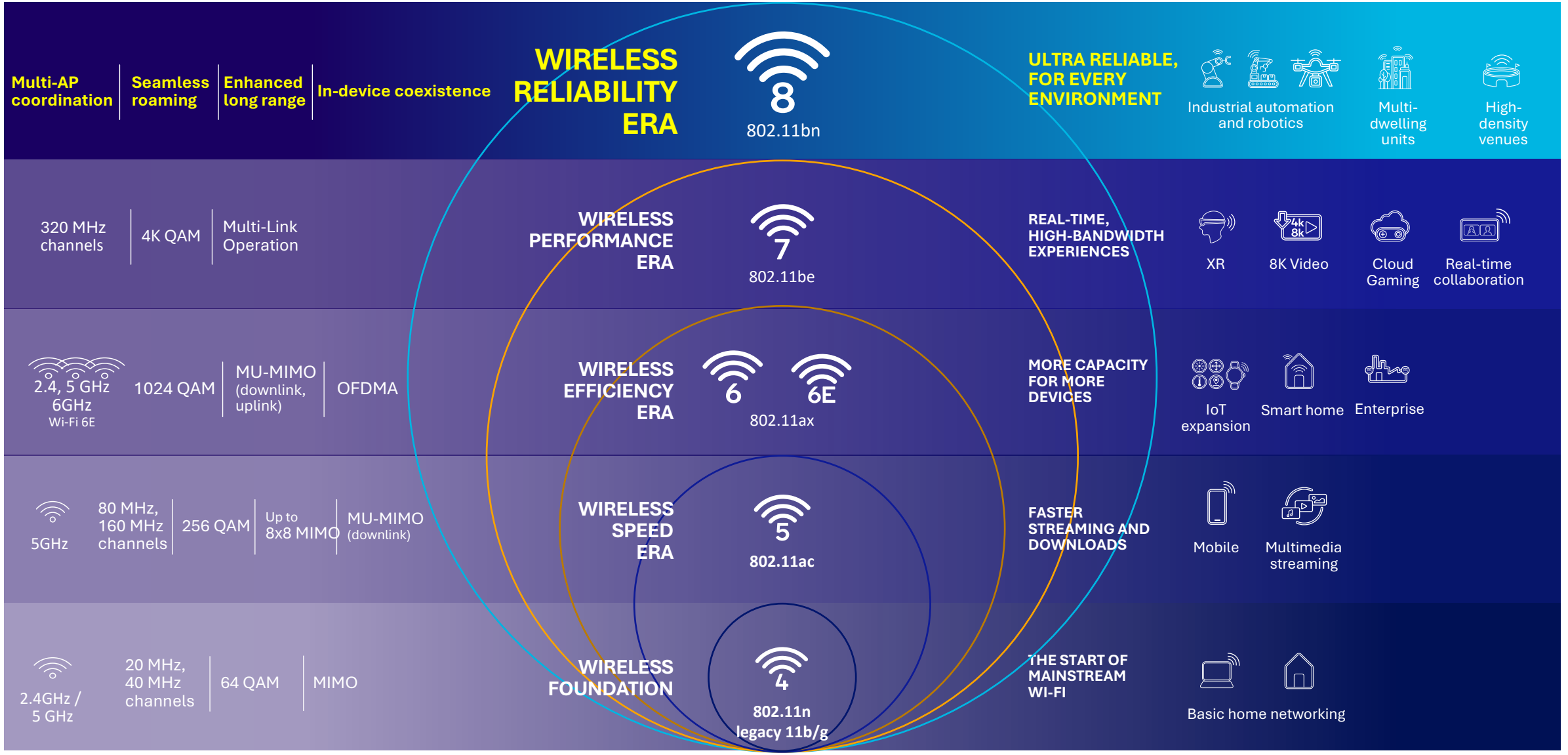
- **Artificial Intelligence Offload (AIO)** SG – enable AI Compute as a Service
- Automotive (**AUTO**) TIG – developed a report on automotive use of Wi-Fi
- Unified Channel Model (**UCM**) TIG – deliver a unified channel model over bands of interest

Task Groups (TG)

- **TGmf** – The next revision of 802.11 (**REVmf**)
- **TGbn** – Ultra High Reliability (**UHR**)
- **TGbi** – Enhanced Privacy Protection (**EPP**)
- **TGbq** – Integrated mmWave (**IMMW**)
- **TGbp** – Ambient Power Communications (**AMP**)
- **TGbr** – Enhanced Light Communications (**ELC**)
- **TGbt** – Post Quantum Cryptography (**PQC**)

IEEE

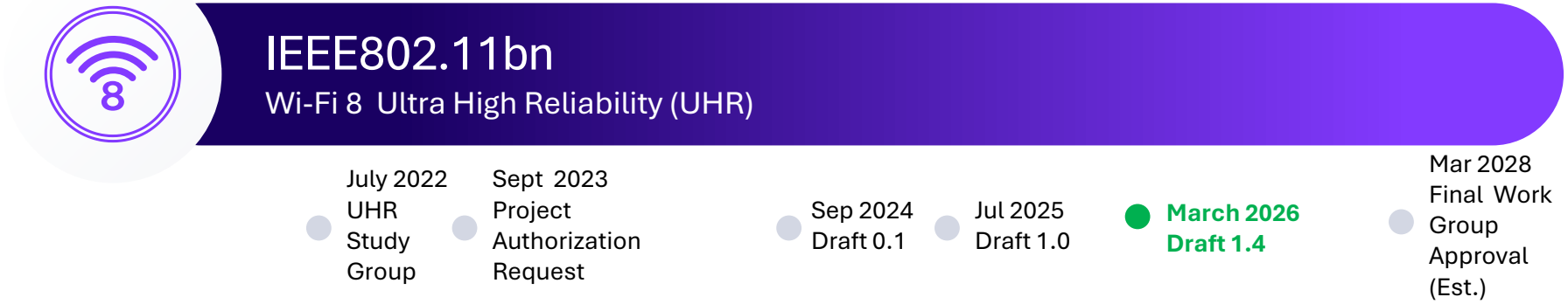
Mainstream 802.11 evolution



IEEE

802.11bn – Overview

- 802.11bn focuses on KPIs that prioritize user experience
  - Up to 25% higher speed vs 802.11be in challenging signal conditions
  - Up to 25% lower latency at the 95 percentile vs. 802.11be
  - Up to 25% less packet loss during transitions between access points (AP)
- Timeline:



- The group completed an initial WG ballot on Draft 1.0 in October 2025.
  - An intermediate D1.4 is published in April 2026

802.11bn – Key Features

- **Physical Layer Improvements**
  - Improved LDPC
  - Intermediate MCS
  - Unequal Modulation
  - Enhanced Long Range
  - Distributed RU
  - Interference Mitigation
- **In-Device Coexistence**
  - **DUO:** Dynamic Unavailability Operation
  - **PUO:** Periodic Unavailability Operation
  - **AOM:** Adaptive Operation Mode
- **Spectrum Efficiency**
  - **DSO:** Dynamic Sub-band Operation
  - **NPCA:** Non-Primary Channel Access
  - **DBE:** Dynamic Bandwidth Expansion
- **Seamless Roaming**
  - **SMD:** Single Mobility Domains
- **Multi-AP Coordination**
  - **Co-TDMA:** Coordinated time division multiple access
  - **Co-rTWT:** Coordinated restricted target wake time
  - **Co-BF:** Coordinated transmit beamforming
  - **Co-SR:** Coordinated spatial reuse
- **Power Efficiency**
  - **DPS:** Dynamic Power Save (STA & mobile AP)
  - **AP PUO:** Scheduled AP power save
  - **MLPM:** Multi link power management
- **Reduced Tail Latency**
  - **P-EDCA:** Prioritized EDCA
  - **LLI:** Low latency indication

802.11bn – Physical Layer Improvements

- **Improved LDPC**
  - Enhanced error correction and decoding performance - for reduced packet loss and increased reliability
- **Unequal Modulation**
  - Each MIMO spatial stream is modulated according to its signal quality
- **Intermediate MCS**
  - Adds additional modulation & coding schemes for finer control over data rates
- **Enhanced Long Range**
  - Addresses uplink–downlink power imbalance between access points and clients
- **Distributed RU**
  - Spreads tones across wider bandwidths to achieve increased TX power in PSD limited band
- **Interference Mitigation (IM)**
  - IM pilots are added to data packets to ensure reliable reception, even in the presence of interference

802.11bn – MAC Layer Improvements

- **Seamless Roaming:** Roaming within an SMD
  - Maintain association and security context when moving between APs for uninterrupted connectivity and consistent performance
- **In-Device Coexistence:** DUO, PUO, AOM
  - Minimized client-side disruptions, improved reliability, lower packet loss and latency, optimized scheduling
- **Spectrum Efficiency :** DSO, NPCA, DBE
  - Higher spectrum efficiency, lower latency and higher throughput
- **Multi-AP Coordination:** Co-TDMA, Co-RTWT, Co-SR, Co-BF
  - Improved reliability, latency and throughput by enabling coordinated scheduling and interference management across APs
- **Power Efficiency:** DPS, AP PUO, MLPM
  - Reduce device and network energy consumption by enabling smarter power-save operation and optimized AP utilization
- **Reduced Tail Latency:** P-EDCA, LLI
  - Minimize worst-case packet delays by prioritizing latency-sensitive traffic and tightening medium access control

802.11bi – Enhanced privacy protection (EPP)

- Focuses on strengthening user privacy by mitigating several risks, including:

Device Fingerprinting

- Preventing identification of a device through unique information exchanged openly before association.

Spoofing Attacks

- For example, an access point (AP) impersonates a user's home AP to trick the user's device into trying to associate, thereby revealing the user's location.

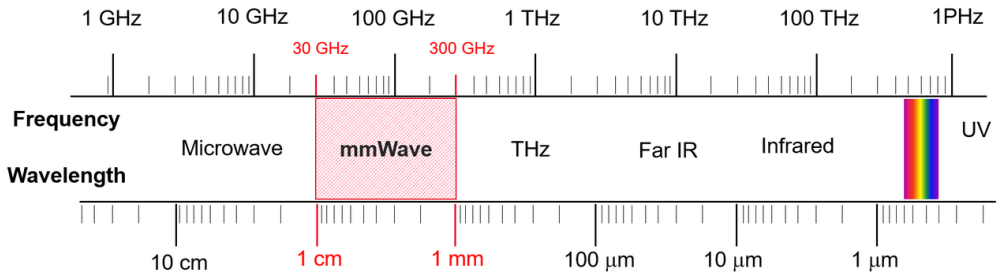
Presence Monitoring

- Detecting the continued presence of an individual even if the individual cannot be identified.

- The group completed the initial SA ballot on Draft 4.0 in March 2026.
  - Draft 5.0 is expected to be published by May 2026.

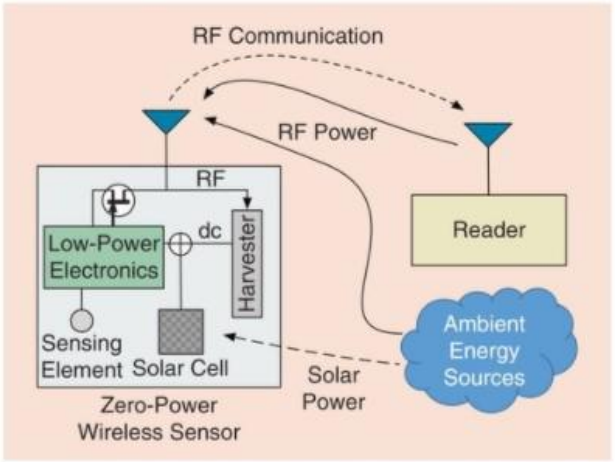
802.11bq – Integrated mmWave (IMMW)

- Focuses on simplifying operation in the 42-71 GHz band to reduce implementation complexity
  - Previous mmWave generations (802.11ad/ay/aj) assumed stand-alone operation
    - 802.11bq targets to redesign with sub-7GHz multi-link integration in mind
- **Expected improvements:**
  - Architectural reuse of low-band PHY
  - Eliminate control PHY by leveraging multi-link; e.g., sector sweep beamforming directed through the low-band channel.
- The project is particularly relevant for regions where 6 GHz band operation is not available



802.11bp – Ambient power communications (AMP)

- Focuses on enabling communication for applications requiring minimal energy consumption, including:
  - Smart home, smart grid and smart manufacturing
  - Logistics tracking and monitoring
  - Fresh Food Supply Chain
- Defines ambient power communication in sub-1 GHz and 2.4 GHz bands.
  - While ensuring coexistence with legacy IEEE 802.11 devices.
- The group is in the early stages of draft development;
  - Draft 0.3 is available; Draft 1.0 is expected by July 2026



P802.11br – Enhanced light communications (ELC)

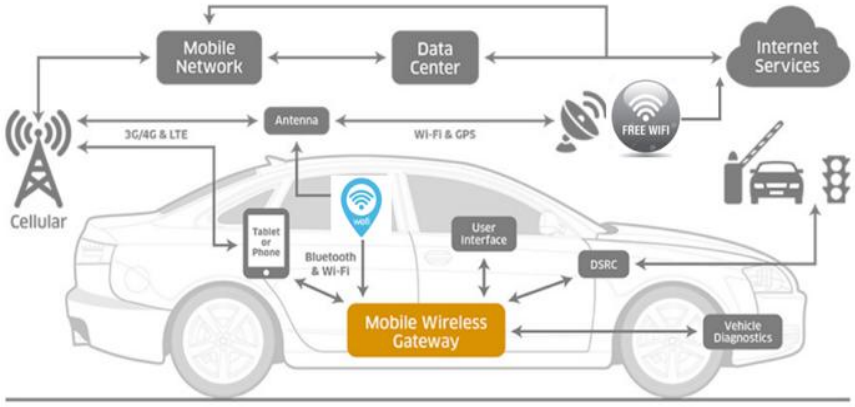
- IEEE Std 802.11bb-2023 added light communications (LC) to 802.11
- P802.11br is a project that will enhance this work
- For example,
  - Add multi-link support
  - Support for underwater operation
- The group is currently working on high level feature development

P802.11bt – Post-Quantum Cryptography (PQC)

- There is a need to move the IEEE802.11 security framework to support quantum resistant technologies
  - US National Security Agency (NSA) recently advanced its timeline to 2027
  - UK National Cyber Security Centre has set 2035 as a milestone for completing migration
- TGbt focuses on extending 802.11 security to support QPC
  - Authentication and key management (AKM) suites for PQC,
  - Digital signature and key establishment algorithms that use PQC,
  - Password authenticated key exchange that uses PQC, and
  - Modifications to key handshake protocols for PQC
- The group is in the early stages of draft development;
  - Draft 0.2 is available; Draft 1.0 is expected by May 2026

Automotive (AUTO) TIG

- The automotive industry wants to use Wi-Fi opportunistically to
  - Update software, maps, etc.
  - Get updates on traffic conditions
  - Serve internet connectivity to occupants using Wi-Fi
  - Connect to mobile devices

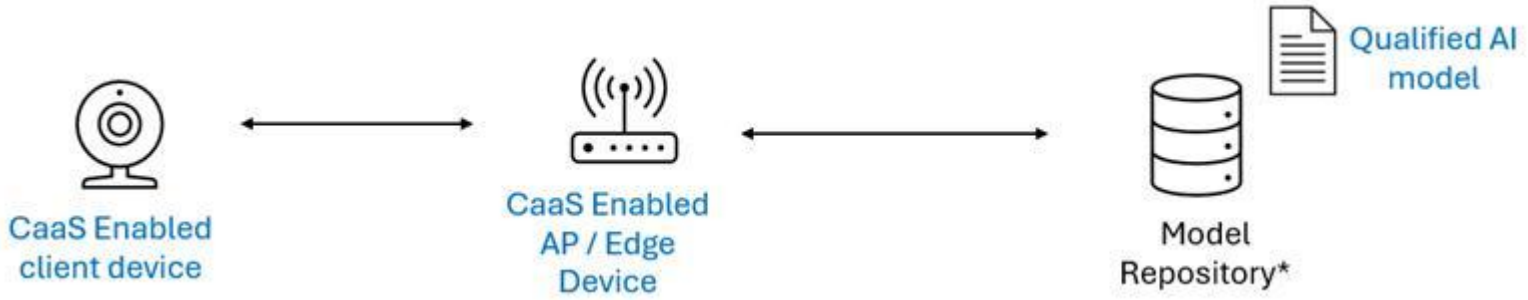


- The group discussed and identified
  - Use cases and requirements
  - Key performance indicators
  - Technical approaches and 802.11 standard gaps in areas such as association & authentication, seamless AP handover, optimized roaming algorithm, etc.
  - Alternative solutions
- Which were included in a report on the automotive use of Wi-Fi
  - The group delivered the report in March 2026

Unified Channel Model (UCM) TIG

- Focuses on developing a unified channel model that is spatially consistent across sub-7 GHz, mm-wave, and optical bands.
- The group is discussing the technical contents of the UCM report
  - Expects delivering the report in July 2026

Artificial Intelligence Offload (AIO) SG



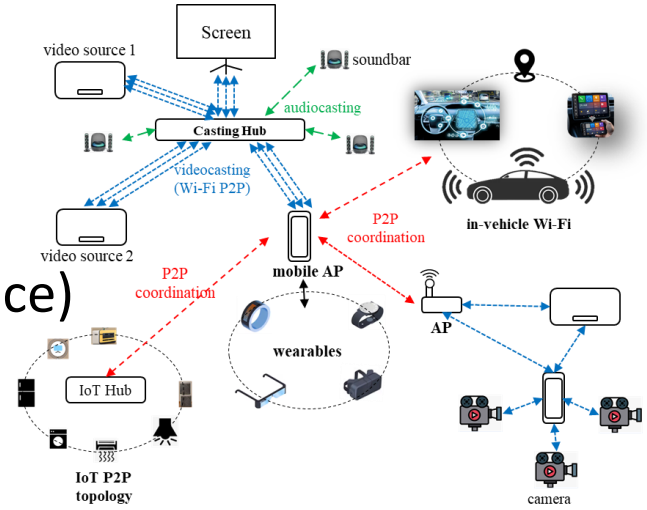
- Targets developing an IEEE802.11 standard to enable offloading of compute intense AI inference tasks to edge AI Wi-Fi Access Points and other Wi-Fi enabled edge compute devices.
  - This Edge AI Offload model is labelled as: ‘Compute as a Service’ - CaaS
- The group is expected to work on the development of a PAR and CSD for adding IEEE802.11 support for AI offloading
  - The group will have their first meeting in May 2026

Artificial Intelligence/Machine Learning (AIML) SC

- Focuses on the applicability of AIML to 802.11 systems and devices
  - Describe use cases where AIML can improve 802.11 systems' performance,
  - Investigate technical feasibility of features enabling 802.11 support of AIML,
  - Analyze new applications of AIML in 802.11 defined capabilities and generate periodic reports on the group's findings.
- The group aims to deliver a technical report on a yearly basis
  - The first technical report has been delivered in November 2025.

What to expect for Wi-Fi 9

- Numerous presentations in the WNG (Wireless Next Generation) standing committee
- Big topics:
  - Reduced latency for AI workloads
  - AI workload traffic mix (e.g., 75-25 vs 90-10 downlink-uplink)
  - Metrics to improve manageability
  - Increase in number of connected devices (wearables, home device)
  - In-vehicle Wi-Fi
  - More complex topologies
- Expect a study group July 2026
- Expect task group early 2027



Summary

- Wi-Fi 8 is based on P802.11bn, with potential inclusion of work from other projects, such as:
  - Control frame protection (REVmf)
  - Quantum-resistant security (P802.11bt)
- Expected P802.11bn gains:
  - Improved efficiency and reliability, including:
    - Reduced **channel access and roaming latencies**
    - Better **coexistence**
    - Enhanced **power saving**
    - Improved **rate-versus-range (RvR)** performance
  - Additional gains expected as **MLO implementations mature** and adopt recent protocol optimizations
- Strong interests on Wi-Fi innovation in the AI era
  - **AI for Wi-Fi:** ongoing use case discussions (e.g., scheduling, link adaptation, feedback reduction)
  - **Wi-Fi for AI:** AI offloading and adaptations to support future AI traffic
  - Expect this to significantly influence discussions around Wi-Fi 9 (and more short term)

THANK YOU

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PANEL: What does Smarter Homes and Smarter MDU Networks Mean in 2026

Moderator: George Hechtman, Hechtman Ventures

Hannah Greenburg

CEO, Eleven Software

David Hand

Operations Manager, Granite Communications

Dr. Sarper Goturk

VP Innovation, Airties

Jack Raynor

President, NetExperience

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COFFEE & NETWORKING
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Bruno Tomás

CTO, Wireless Broadband Alliance

Moderator Introduction

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WIRELESS TECHNOLOGY INNOVATION AND STANDARDS 2030

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Time	Presentation
16:00 PM (CDT)	**Moderator Introduction** Bruno Tomás – CTO, Wireless Broadband Alliance - Moderator
16:05 PM (CDT)	**Connectivity's next decade depends on 6 GHz Wi-Fi®** Jeff Platon – VP of Marketing, WiFi Alliance
16:20 PM (CDT)	**Maximizing 6 GHz Standard Power: Intelligence-Driven Wi-Fi for Real-World Deployment** Vijay Venkateswaran - Strategy and Business Development Executive, C3Spectra Inc. Derek Ferro – Director of Engineering, Sercomm
16:40 PM (CDT)	**Operator Perspective on the Expansion of Wi-Fi Passpoint & Importance of Quality Metrics** Shawn Bausman – Associate Director – Inbuilding Solutions, AT&T
16:55 PM (CDT)	**Certified Wi-Fi Performance** Troy Martin – Director Product Marketing, Ookla
17:05 PM (CDT)	**Fireside Chat: Impacts and Importance of Wi-Fi Design Standards to delivering Next Gen Performance** Troy Martin – Director Product Marketing, Ookla Brad Howell – Senior Sales Engineer, Wyebot Rie Morgan – CEO, NC Expert
17:25 PM (CDT)	**PANEL: Wireless Technologies - Unlocking new revenue streams for Service Providers and Enterprises** Akshay Agarwal – Director, Tech Partnerships, Google JR Wilson – Chief of Networks & Spectrum, AST SpaceMobile Joost Rietman – Key Account Manager, Deutsche Telekom Derek Underwood– Cambium Networks
18:05 PM (CDT)	**Event Close - Closing Remarks** Tiago Rodrigues – President & CEO, Wireless Broadband Alliance
18:00 PM (CDT)	**WGC AND NETWORK X AMERICAS NETWORKING DRINKS AND CANAPES**

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Jeff Platon

VP of Marketing, Wi-Fi Alliance

Connectivity's next decade depends on 6 GHz Wi-Fi®

Connectivity's next decade depends on 6 GHz Wi-Fi®

Jeff Platon

VP Marketing and Product Management, Wi-Fi Alliance®

WIRELESS GLOBAL CONGRESS

2026

The 6 GHz adoption story is wrong.

CISCO'S STATE OF WIRELESS 2026

6 GHz is moving fast

Across 5 million Cisco networks, the data is unambiguous

60%

Growth in 6 GHz clients going live in 2025

23%

Increase in Wi-Fi 6E and Wi-Fi 7 access point deployments in the second half of 2025

59%

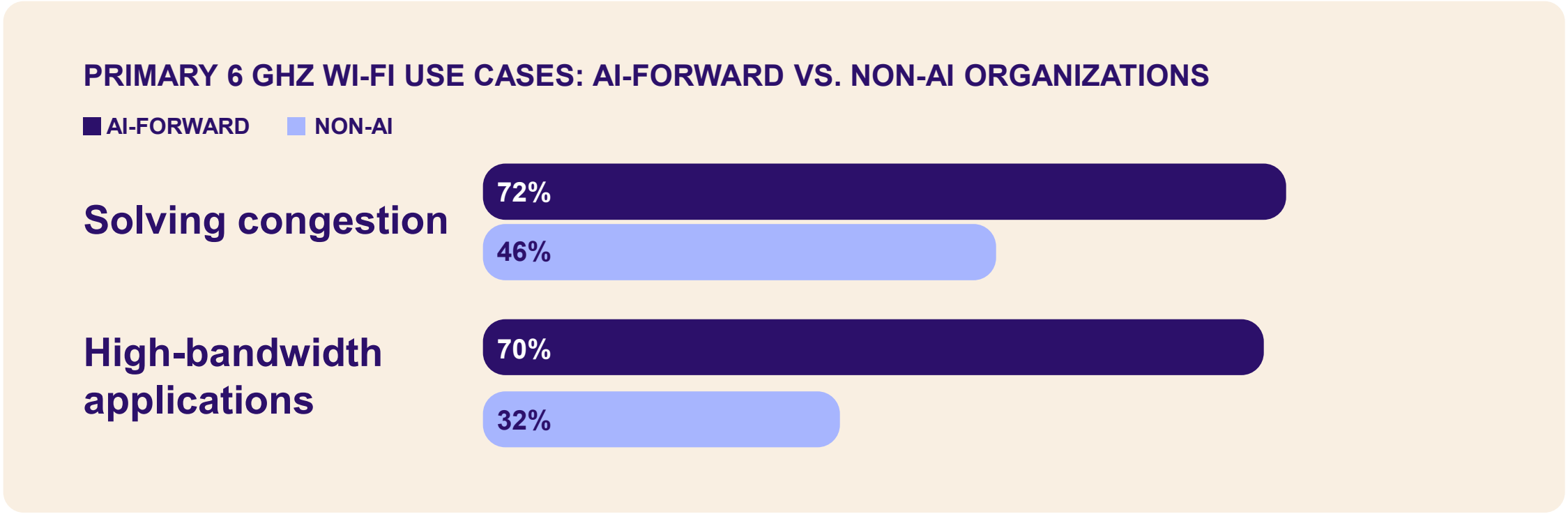
Of organizations plan to deploy Wi-Fi 6E or Wi-Fi 7 within the next year

Remember, 6 GHz doubled Wi-Fi® spectrum

(Cisco, 2026)

AI runs on 6 GHz

Organizations on 6 GHz deploy artificial intelligence (AI) workloads at **nearly 2x the rate** of non-6 GHz organizations (45% vs 26%)



(Cisco, 2026)

Same room, same students, different spectrum

Demonstrating the impact of 6 GHz Wi-Fi at a teaching hospital in Thailand

SETUP	USE CASES	SCENARIOS
6 access points, 200 students	**Immersive XR for medical education and dense classroom deployment**	**Lower 500 MHz of 6 GHz versus full 1,200 MHz of 6 GHz**

LOWER 500 MHZ OF 6 GHZ

- ⊖ Lag in XR application: risk of motion sickness
- ⊖ Glitches and buffering on 8K video
- ⊖ Slow, repeatedly aborted file transfers

FULL 1,200 MHZ OF 6 GHZ

- ✓ Smooth XR operation
- ✓ Seamless 8K streaming
- ✓ High-speed file transfers
- ✓ Full utilization of network capacity

6 GHZ SPECTRUM REALITY

6 GHz Wi-Fi is already delivering

77-88%

Portion of smartphone screen-on time happening on Wi-Fi

Wi-Fi is how people connect.

$528B

Global economic value directly attributed to 6 GHz Wi-Fi last year

Economies rely on 6 GHz Wi-Fi.

---

4 + 34

Countries with AFC-supported 6 GHz Wi-Fi and countries pursuing it

The next phase is expanded 6 GHz.

(Opensignal, 2024) (Telecom Advisory Services, 2021)

THE TIMES THEY ARE A-CHANGIN'

Standard Power 6 GHz: there is nothing standard about it

WHAT THE CURRENT NAME LEAVES OUT

1

Persistent, powerful connectivity

Transitioning between indoor and outdoor without interrupting 6 GHz-tier capacity and throughput

2

Expanded coverage without compromise

Economical single-AP deployments supporting the full footprint of homes and businesses

3

Enabling AI evolution

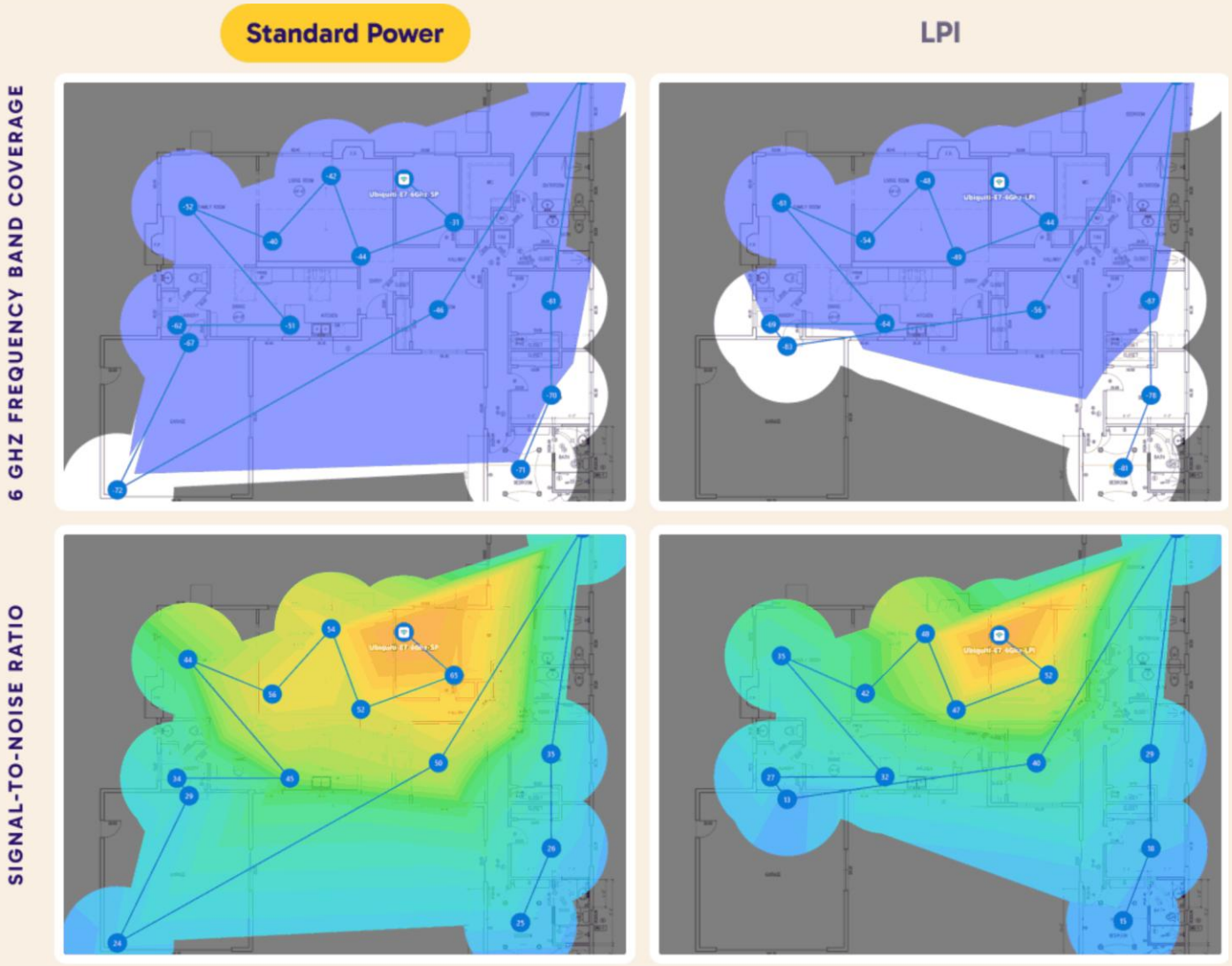
Creating the network performance potential that opens the door for new AI use cases

The way we talk about Standard Power 6 GHz will soon match its impact on connectivity.

RESIDENTIAL TRIAL — STANDARD POWER VS LPI

Closing the residential 6 GHz coverage gap

14 test points · single-family home · 11–64 ft from the AP · line-of-sight (LOS) and non-line-of-sight (NLOS)



14 / 14 STANDARD POWER

10 / 14 LPI

Standard Power reached every test point while LPI failed on 4 of 14

+3

Rooms gained that LPI could not reach

1,131 Mbps vs **731 Mbps**

Downlink throughput in the laundry room at 40 ft. from the AP

TAKEAWAY

Standard Power offers whole-home coverage, supporting intensive use cases while reducing service calls

ENTERPRISE TRIAL — STANDARD POWER VS LPI

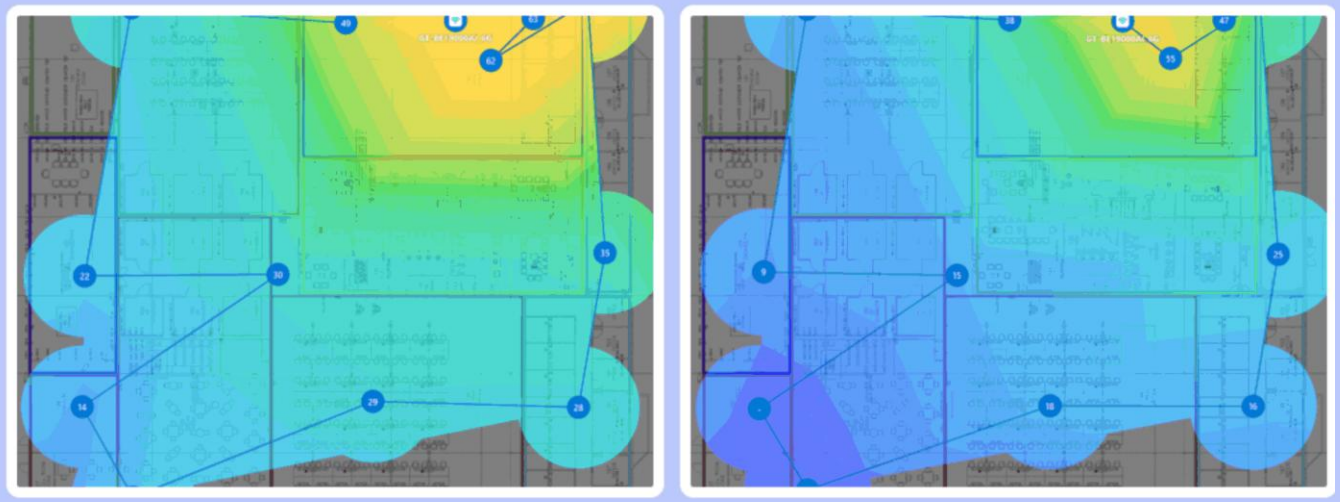
Single-AP 6 GHz across the office floor

10 test points · large commercial office · 35–190 ft from the AP · line-of-sight (LOS) and non-line-of-sight (NLOS)

Standard Power | LPI

6 GHZ FREQUENCY BAND COVERAGE

SIGNAL-TO-NOISE RATIO



10 / 10 STANDARD POWER

8 / 10 LPI

Standard Power reached every test point while LPI failed on 2 of 10

+2

Perimeter locations gained that LPI could not reach

230.1 Mbps vs **39.9 Mbps**

Downlink throughput at 145 ft. from the AP

TAKEAWAY

Standard Power covers larger office footprints with less costly infrastructure and simplified deployments

6 GHz Wi-Fi is the future
The future is already here

Jeff Platon

VP Marketing and Product Management, Wi-Fi Alliance®

www.wi-fi.org

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Maximizing 6 GHz Standard Power: Intelligence-Driven Wi-Fi for Real-World Deployment

Vijay Venkateswaran

Head of Strategy and Business Development,
C3Spectra Inc.

Derek Ferro

Director of Engineering,
Sercomm

Maximizing 6 GHz Standard Power

Intelligence-Driven Wi-Fi for Real-World Deployment

Vijay Venkateswaran · Head of Strategy and Business Development, C3Spectra Inc.

Derek Ferro · Director, Engineering, Sercomm Corporation

OPPORTUNITY & CHALLENGE

U-NII-5	U-NII-6	U-NII-7	U-NII-8
5925–6425 MHz · SP-eligible	LPI / VLP	6525–6875 MHz · SP-eligible	LPI / VLP

The Opportunity

- 1,200 MHz of spectrum | 3× 5 GHz band
- Wi-Fi 7 + Wi-Fi 8 + 6 GHz = Headline Speed + MLO
- No DFS events, no co-channel neighbors
- GVP - Extends 6 GHz to mobile
- Independent analysts forecast AFC scaling in 2026

The Challenge

- Standard Power requires AFC — most CPE lack GPS
- LPI misses ~30% of HH: basements, courtyards, far rooms
- Assume GPS - it usually is not present
- Scaling Standard Power needs location accuracy
- GVP devices are mobile - continuous non-GPS is unsolved

SOLUTION FOR ALL POWER TIERS NO GPS REQUIRED

Field Application

Location + Z Axis

Computer Vision | Proximity/AR | IMU Signature | Wi-Fi + Cellular

Spectra-XPro Intelligence Layer

- **Geolocation Service**
- **Integrated AFC + Propagation Engine**
- **SP | GVP Computation**
- **Compliance & Audit**

On-Device Agent

No GPS · No Barometer

AFC Proxy Hook · Policy Enforcement · mTLS · Daily Re-authorization

- **SP** — Standard Power
- **LPI** — Low Power Indoor
- **GVP** — Geofenced Variable Power

C3Spectra AFC Integrated and Geo-Location enabled Architecture

WHAT IS NOVEL

FOUNDATIONAL CAPABILITIES

01 **Integrated Stack | Deployed on the AP/Gateway**

On-Device Agent + Cloud Platform + Mobile App > Lower BOM / OEM Economics

02 **Building Entry Loss (BEL) Waiver Opportunity**

Spectrum and Power Advantages

03 **GVP-ready Architecture | Forward Ready**

Reuse Architecture for GVP/MLO when ready

STANDARD POWER: OPERATOR-READY TODAY

No GPS chip required

Reuses existing gateway silicon

- No new sensors
- Same BOM
- Flexible SDK

Ship This Quarter

SDK on shipping gateways

- No new SKU
- No recertification
- Light compliance stack

Recover the HHs LPI Misses

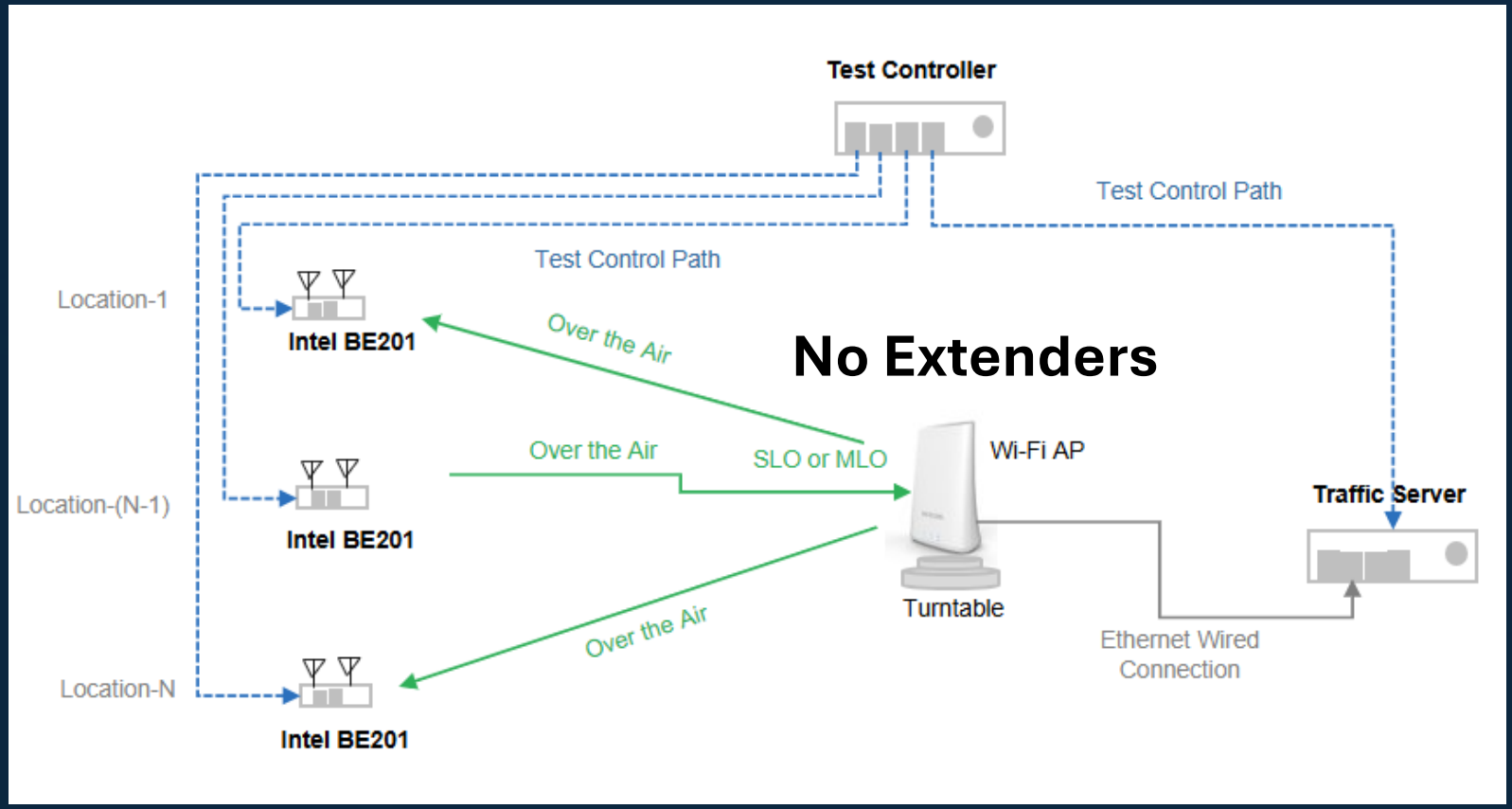
+55% throughput at the outdoor edge

- Coverage: 25–35% gap vs LPI
- TP: +20%(M)· +55%(F)

REAL-WORLD. OPERATOR-LIKE DEPLOYMENT SCENARIO

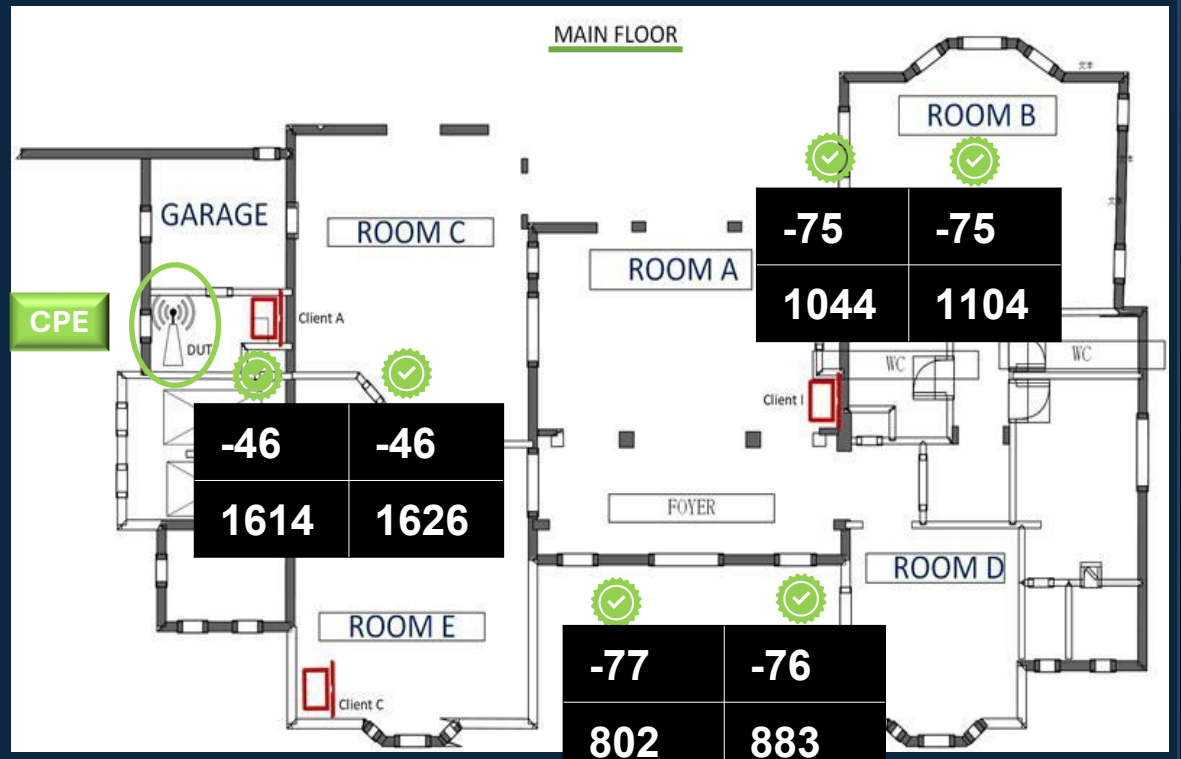
Demonstrate Standard Power Improvements: Usable Coverage + Customer QoE versus LPI

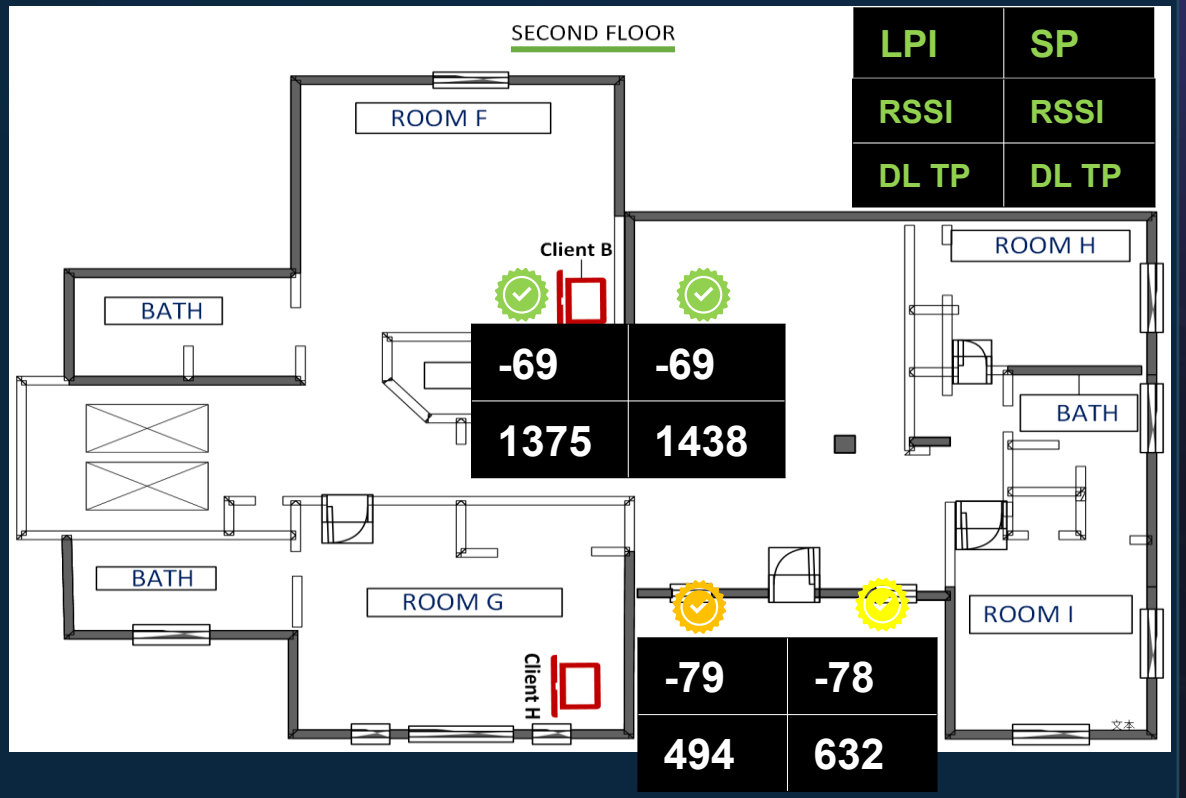
- SBE1V1R Wi-Fi 7 Tri-Band 4x4
- Client: iPhone 16 Pro Max
- Indoor (Mid | Far) + Outdoor
- IXChariot TCP + Ookla



REAL-WORLD. OPERATOR-LIKE DEPLOYMENT SCENARIO

Demonstrate Standard Power Improvements: Usable Coverage + Customer QoE versus LPI

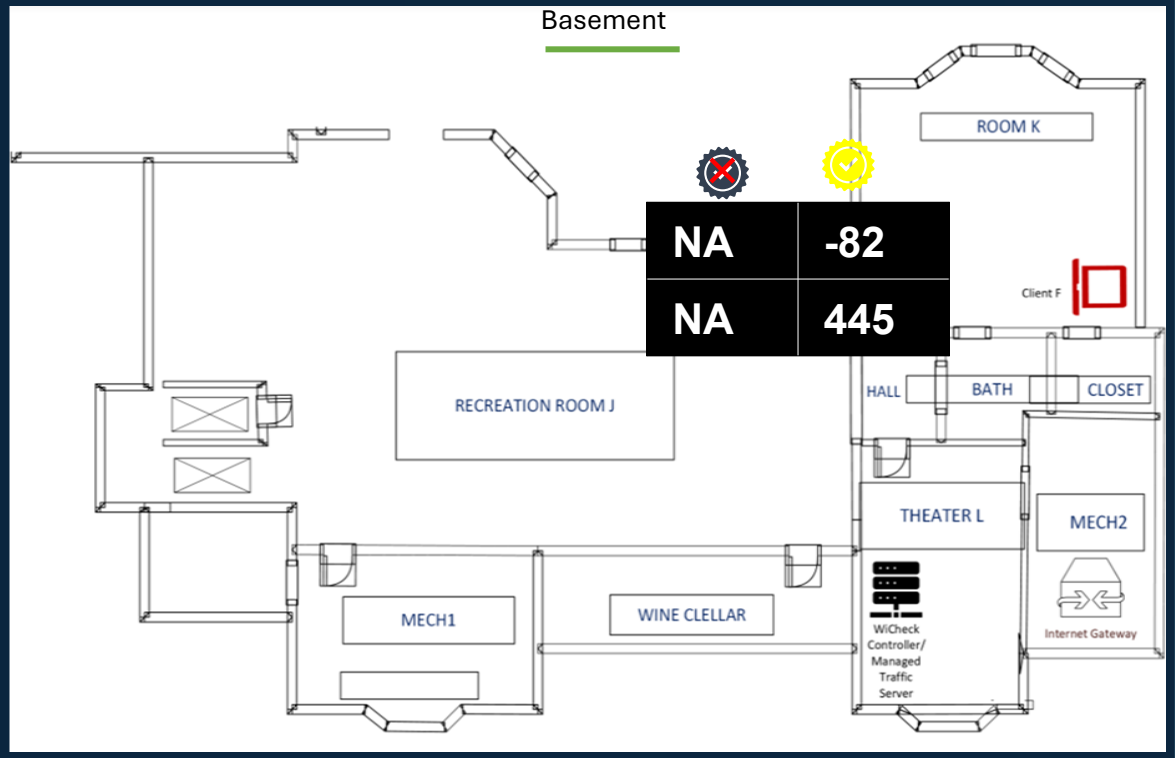


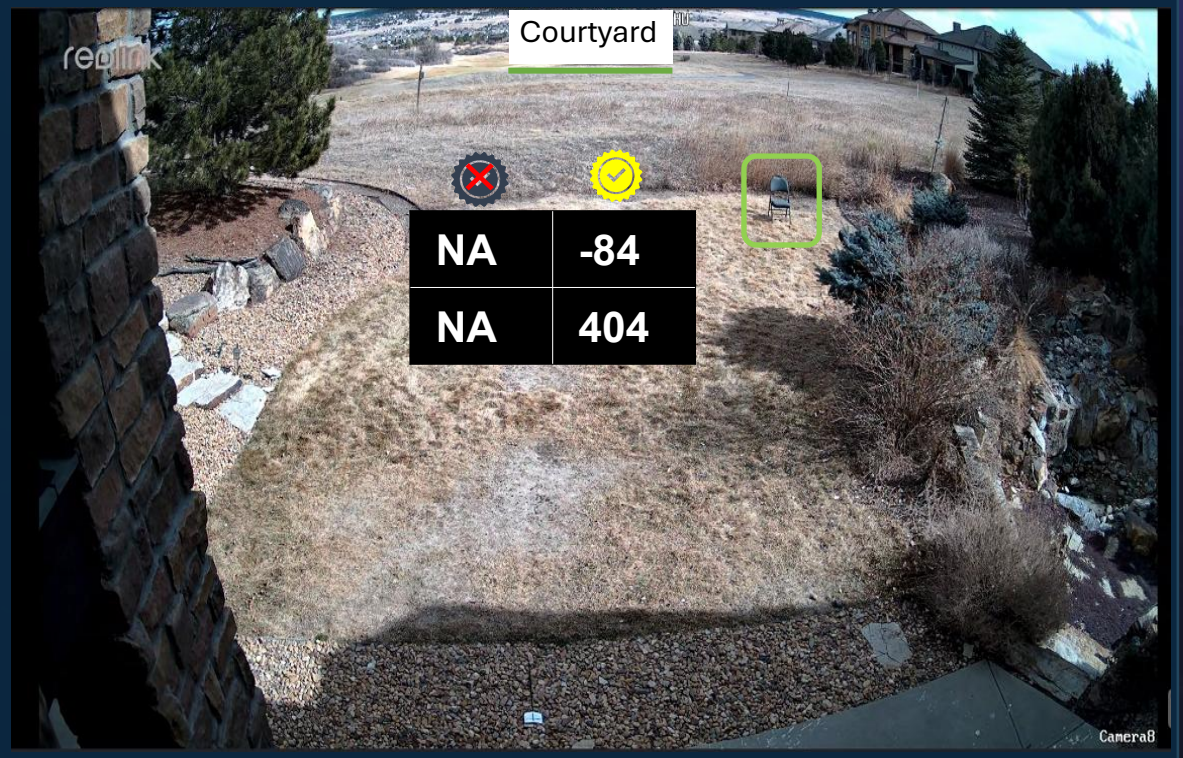


Device: iPhone Pro Max: 6 GHz 160 MHz : DL TP

REAL-WORLD. OPERATOR-LIKE DEPLOYMENT SCENARIO

Demonstrate Standard Power Improvements: Usable Coverage + Customer QoE versus LPI





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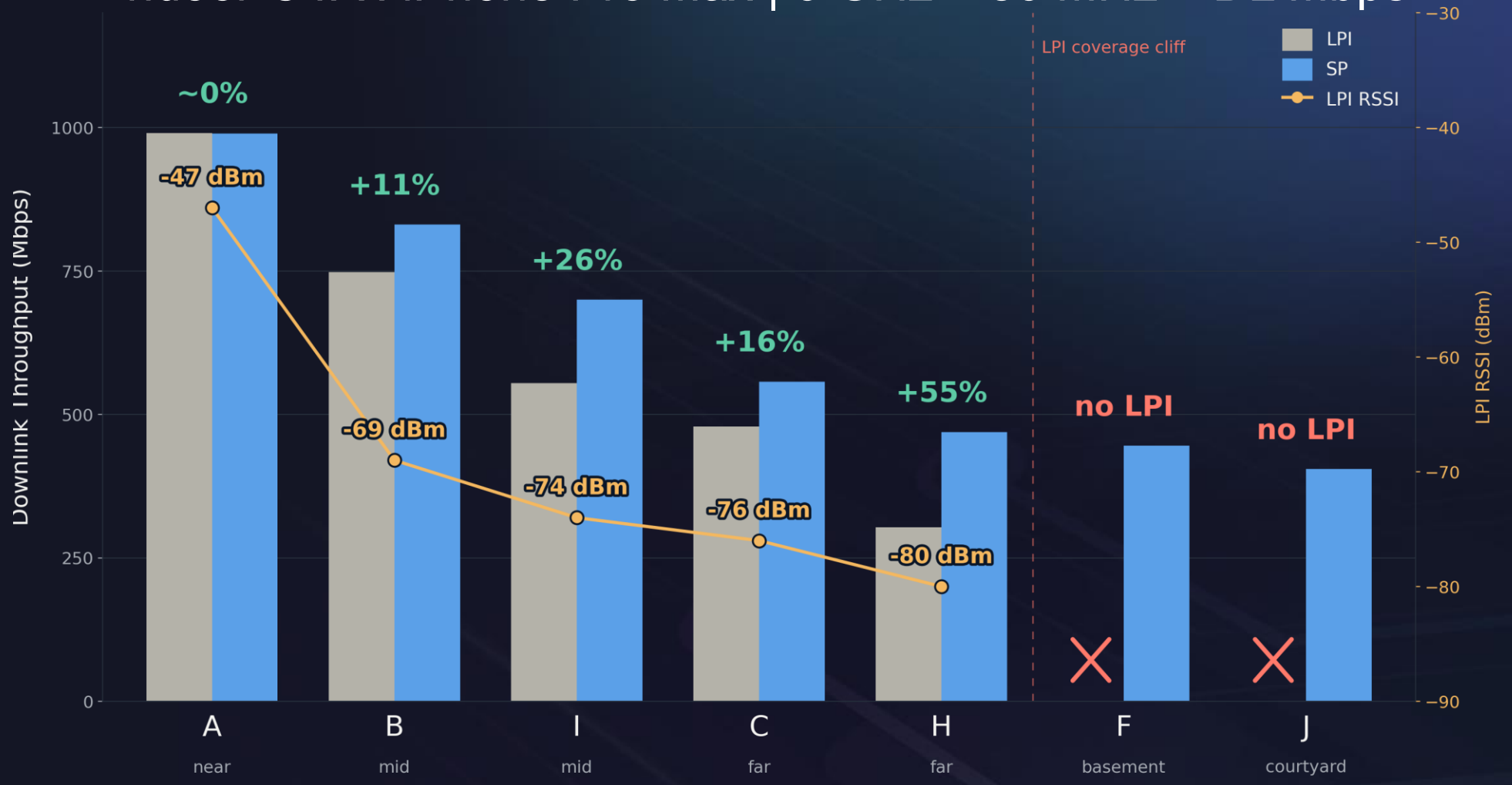
STANDARD POWER PROTECTS PERFORMANCE AT DISTANCE

Indoor OTA : iPhone Pro Max | 6 GHz – 80 MHz – DL Mbps



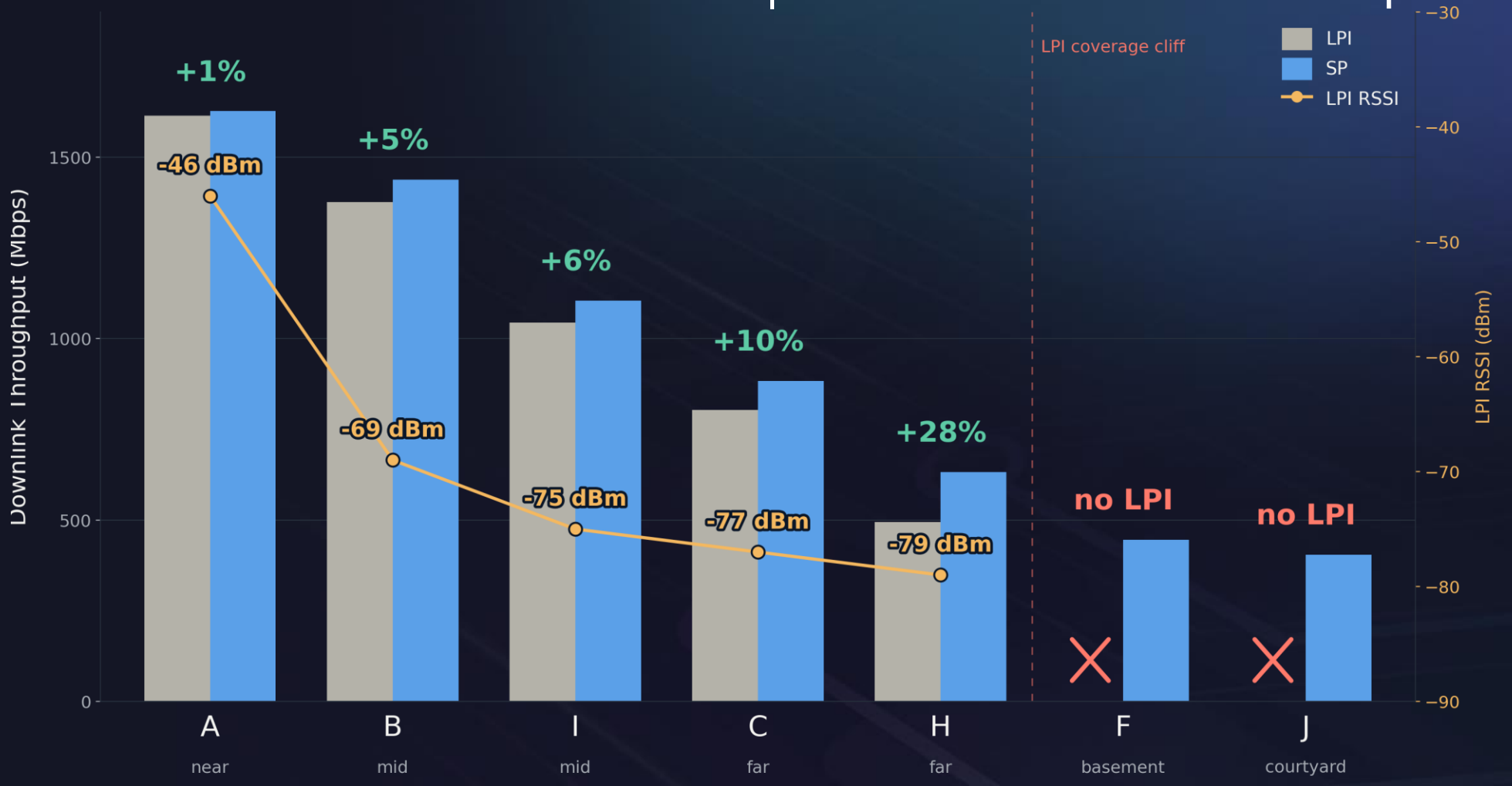
+55%

Ookla DL gain outdoor edge point

SERCOM

STANDARD POWER PROTECTS PERFORMANCE AT DISTANCE

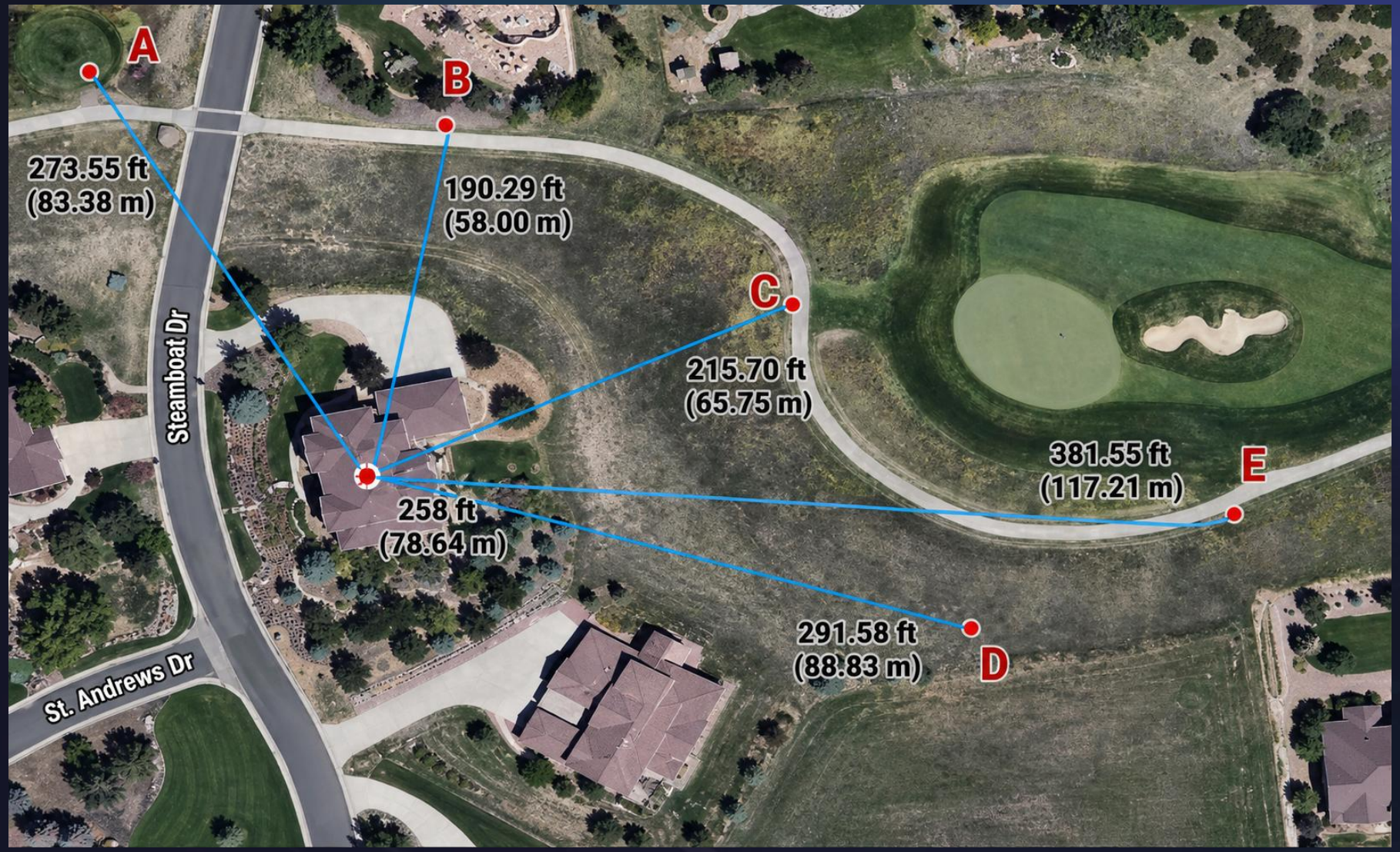
Indoor OTA : iPhone Pro Max | 6 GHz – 160 MHz – DL Mbps



+28%

Ookla DL gain outdoor edge point

6 GHz SP vs 5 GHz - OUTDOOR PERFORMANCE



6 GHz SP vs 5 GHz - OUTDOOR PERFORMANCE

6 GHz SP vs 5GHz
Similar Coverage

Cleaner Band -
Better Performance

STANDARD POWER OPERATIONS | VALUE CREATION

01

Expand usable 6 GHz coverage

More rooms and edge locations

02

Improve QoE consistency

Gaming, video, work-from-home and AR/VR - Predictable links

03

Reduce support friction

Fewer :
Dead-zones, Extender placement issues, Truck rolls

04

Monetize Wi-Fi tiers

Premium Wi-Fi 7, whole-home service assurance and add-on packages

Standard Power 6 GHz | Whole-home Service Layer

IMPLICATIONS FOR SERVICE PROVIDERS & ECOSYSTEM

For ISPs deploying home gateways

- Standard Power readiness varies by OEM design choices - RF architecture and system design.
- LPI performance degrades in difficult propagation environments. SP closes 25–35% coverage gap

For the Wi-Fi ecosystem

- Improved system designs expected to driver better performance
- RF front-ends maturity translates to better whole home high capacity

For GVP and the mobile future

- Same AFC infrastructure and non-GPS location foundation extend to GVP
- Forward-ready architecture across all device types

The hardware, the AFC system, and the location solution all exist today
BEL and GVP extend the foundation

AI-powered solutions for simplified network deployment

BOOTH 117

Technical brief download

Vijay Venkateswaran · Head of Strategy and Business Development, C3Spectra Inc.

Derek Ferro · Director, Engineering, Sercomm Corporation

info6ghz@c3spectra.com

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Shawn Bausman

Associate Director – Inbuilding Solutions, AT&T

Operator Perspective on the Expansion of Wi-Fi Passpoint & Importance of Quality Metrics

Operator Perspective on the Expansion of Wi-Fi Passpoint & Importance of Quality Metrics

Shawn Bausman – Associate Director, AT&T Inbuilding Solutions

May 19, 2026

“Expand AT&T’s Wi-Fi Passpoint footprint with the inclusion of key performance metrics to deliver a high-quality Wi-Fi experience.”

AT&T

Wi-Fi Passpoint Expansion (“The How”)

Work w/ Wi-Fi Aggregators

- Enterprise, retail, govt, & education customers
- Identify poor inbuilding coverage areas
- Upcoming events or conferences

Internal Metric Tools

- Key performance indicators:
  - Voice drop call rate, “no-service” events, RSRP, RSRQ, and RRC failure rate
- SSID Identified
- 10K+ SqFt & 100+ devices

RAN & Account Teams

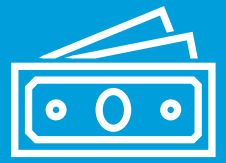
- Local RAN teams address poor inbuilding coverage areas
- Account Teams identify key venues
- Large Permanent Venues & Temp Events
- EOL Technologies

AT&T

Result of Wi-Fi Passpoint Expansion

2x – 3x YoY Growth (GBs)

Big Box Stores, Retail, Universities, Govt, K-12, Wi-Fi 7 Deployments, & New Device Adoption



New Revenue Opportunities

New Sub$, Reduced Churn, and New Applications

Need for Quality Metrics!!!

Quality Network Experience is a MUST!!!

AT&T

Expanding Footprint, Elevating Quality!

AT&T

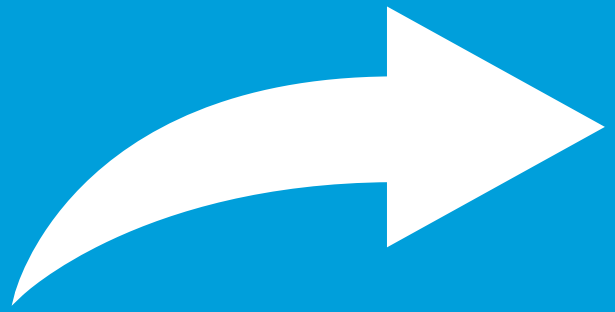
Why Wi-Fi Passpoint Quality Metrics

Channel Utilization

Jitter

Latency

Packet Retransmission



Best Network Selection

Intelligent Steering

Convergence Tools

These 4 metrics feed directly into **intelligent steering** and **convergence decisions**.

AT&T

AT&T

"More Wi-Fi Passpoint locations + high quality Wi-Fi network = GREAT customer experience."

THANK YOU!!!

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Troy Martin

Director Product Marketing, Ookla

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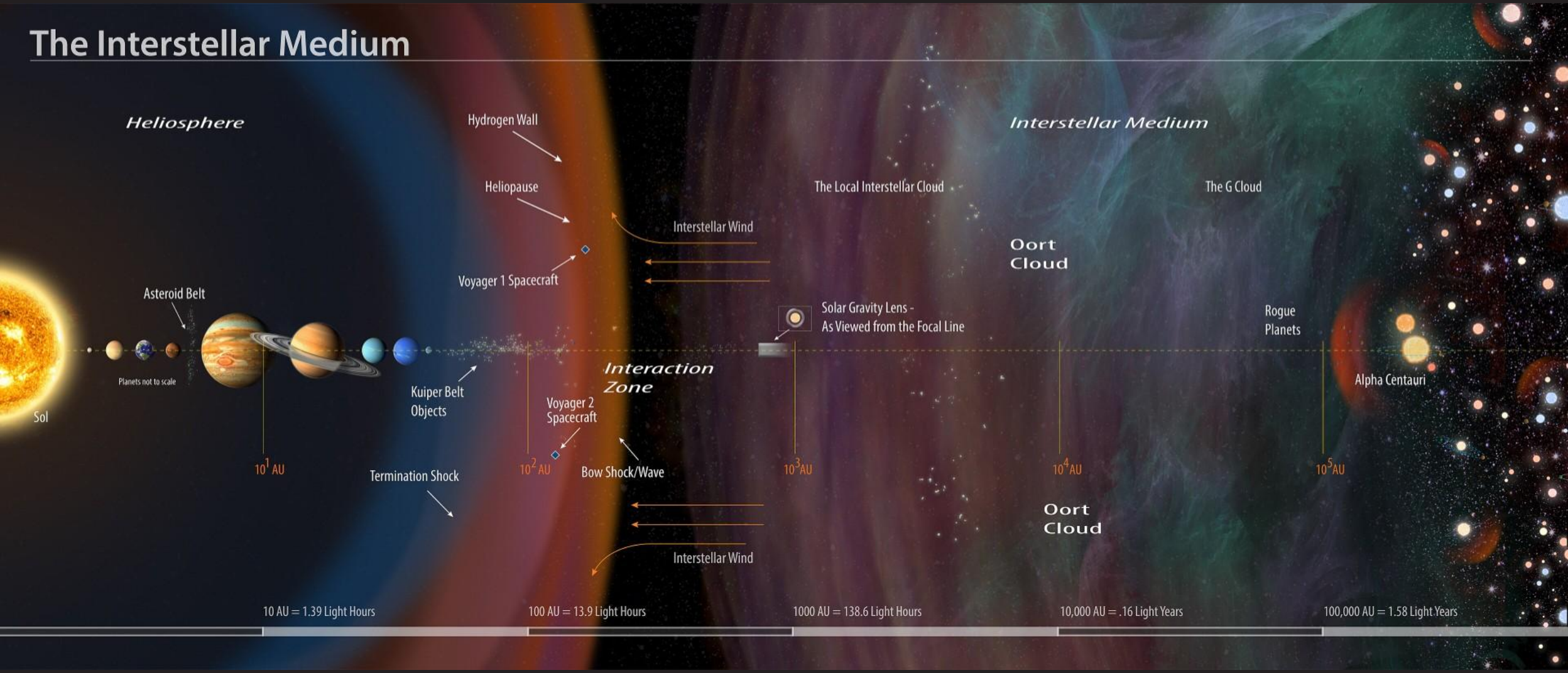

The Interstellar Medium
Heliosphere
Hydrogen Wall
Heliopause
Interstellar Wind
Voyager 1 Spacecraft
Asteroid Belt
Planets not to scale
Sol
Kuiper Belt Objects
Interaction Zone
Voyager 2 Spacecraft
Termination Shock
Bow Shock/Wave
Interstellar Wind
10^1 AU
10^2 AU
10^3 AU
10^4 AU
10^5 AU
Interstellar Medium
The Local Interstellar Cloud
The G Cloud
Oort Cloud
Solar Gravity Lens - As Viewed from the Focal Line
Rogue Planets
Alpha Centauri
Oort Cloud
10 AU = 1.39 Light Hours
100 AU = 13.9 Light Hours
1000 AU = 138.6 Light Hours
10,000 AU = .16 Light Years
100,000 AU = 1.58 Light Years

Overview | About | Rooms | Accessibility | Policies

The Westin Irving Convention Center at Las Colinas

★★★★

9.2 Wonderful

See all 572 reviews ›

Highlights for your 4-night trip

Loved by couples
This property received multiple 10/10 ratings from couples.

Exceptional service & staff
The top-rated staff and service will ensure you feel welcome and pampered.

Poolside bar
A rare find - enjoy refreshing drinks by the pool.

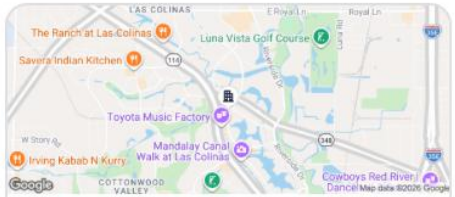
Easy to get around
Guests love the convenient spot for exploring the area.

About this property

- Hot tub on site
- Valet parking available
- Coffee shop
- Vegetarian breakfast available
- Pets allowed (fee applies)
- Internet access

See all about this property ›

Explore the area



400 West Las Colinas Boulevard, Irving, TX, 75039
View in a map ›

Irving Convention Center	1 min walk
Toyota Music Factory	5 min walk
The Pavilion	10 min walk
Dallas, TX (DFW-Dallas-Fort Worth Intl.)	10 min drive

See all about this area ›

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OOKLA

Troy Martin

Director, Product Marketing & ECSE

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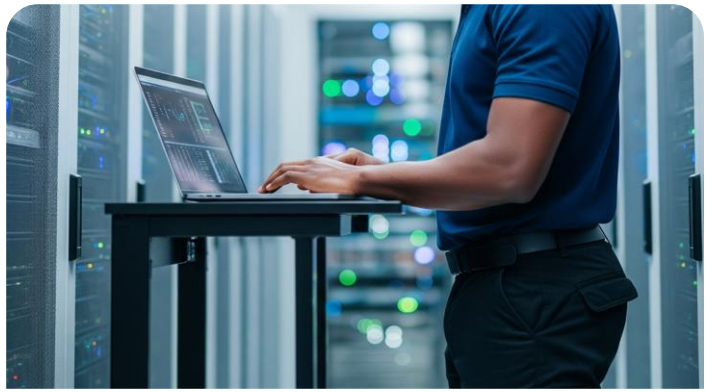
Our trusted methodology employs a unique, data-driven approach that leverages comprehensive datasets from multiple technology types to validate the end-to-end digital experience.

Comprehensive On-Site Network Assessment

Real-World Performance Testing



Infrastructure Readiness and Resilience

OOKLA

Design Flexibility

Better Wi-Fi

31 APs

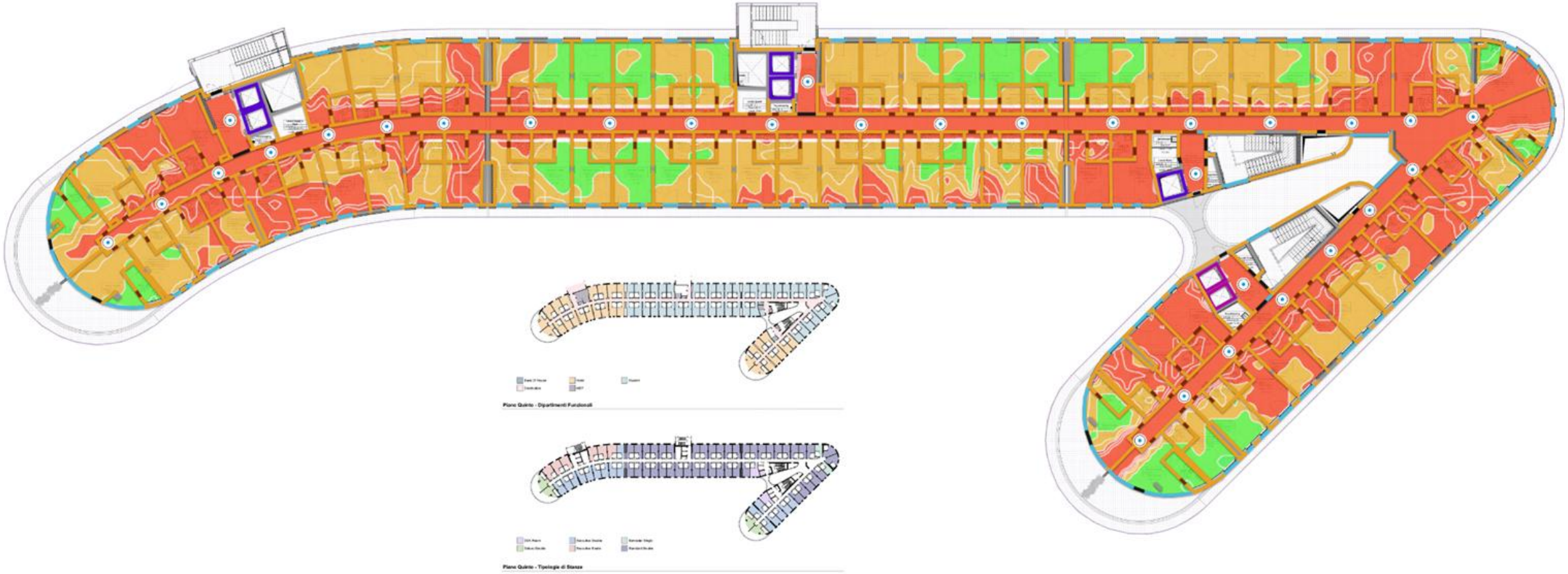
APs only in hallways

31 APs

APs only in hallways

31 APs

APs only in hallways - Channel Interference



78 APs

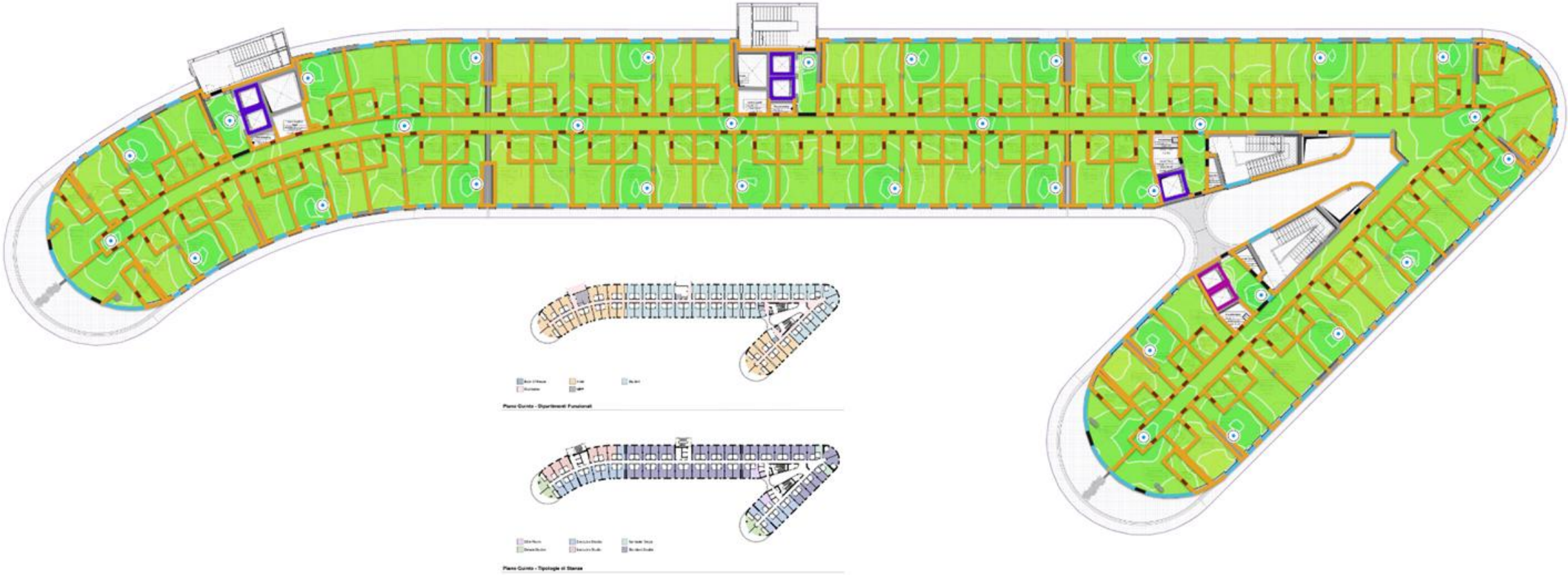
APs in every room

42 APs

APs in every other room

33 APs

Hybrid, APs in hallways and in rooms?!



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Fireside Chat: Impacts and Importance of Wi-Fi Design Standards to Delivering Next Gen Performance

Troy Martin

Director Product Marketing, Ookla

Brad Howell

Senior Sales Engineer, Wyebot

Rie Morgan

CEO, NC Expert


DESIGN STANDARD
• CONSISTENCY
• DURABILITY
• ACCESSIBILITY
• AESTHETICS
DESIGN STANDARD
SITE ELEMENTS
BENCH
TRASH RECEPTACLE
LIGHT POLE


NETWORK CONNECTIVITY DESIGN STANDARD
DESIGN GOALS
Secure
Reliable
Scalable
Efficient
Resilient
Future-Ready
REFERENCE ARCHITECTURE
DATA CENTER
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LAYERS OF CONNECTIVITY
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End-to-End Connectivity
NETWORK LAYER
Routing & Path Selection
SECURITY LAYER
Protection & Access Control
PHYSICAL LAYER
Infrastructure & Media
KEY STANDARDS & PROTOCOLS
IPV4 / IPV6
BGP, OSPF, ISIS
DNS, DHCP, NTP
802.1X, RADIUS, TACACS+
IPSEC, TLS, SSL
SNMP, NETFLOW, SYSLOG
PERFORMANCE METRICS
AVAILABILITY
LATENCY
THROUGHPUT
PACKET LOSS
JITTER
DESIGN PRINCIPLES
RELIABILITY
High Availability
Fault Tolerance
SECURITY
Zero Trust Architecture
End-to-End Protection
SCALABILITY
Flexible & Elastic
Future Ready
PERFORMANCE
Optimized Connectivity
Low Latency
MANAGEABILITY
Automation
Observability
NETWORK CONNECTIVITY
DESIGN STANDARD
CAMPUS
DATA CENTER
WAN / INTERNET
BRANCH
REMOTE USER
CLOUD SERVICES
CONNECTIVITY STANDARDS
IPV4 / IPV6
BGP & ROUTING
QOS & TRAFFIC MANAGEMENT
SEGMENTATION (VLAN / VRF)
ENCRYPTION (IPSEC / TLS)
WIRELESS (WI-FI 6/7)
SD-WAN
BEST PRACTICES
TECHNOLOGY GUIDELINES
SDN
SASE
NFV
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PANEL: Wireless Technologies - Unlocking New Revenue Streams for Service Providers and Enterprises

Akshay Agarwal

Director, Tech Partnerships, Google

JR Wilson

Chief of Networks & Spectrum, AST SpaceMobile

Joost Rietman

Key Account Manager,
Deutsche Telekom

Derek Underwood

Regional VP Americas, Cambium Networks

Wireless Broadband Alliance

PANEL: WIRELESS TECHNOLOGIES

Unlocking new revenue streams for Service Providers and Enterprises

JR WILSON
Chief of Networks & Spectrum
AST SpaceMobile

AKSHAY AGARWAL
Director, Tech Partnerships
Google

JOOST RIETMAN
Key Account Manager
Deutsche Telekom

DEREK UNDERWOOD
Regional VP Americas
Cambium Networks

5G

CONNECTING EVERYWHERE

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ENABLING ENTERPRISES

DELIVERING NEW REVENUE

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Tiago Rodrigues

Wireless Broadband Alliance

Event Close – Closing Remarks

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DALLAS, USA

18 - 19 May - Open Congress

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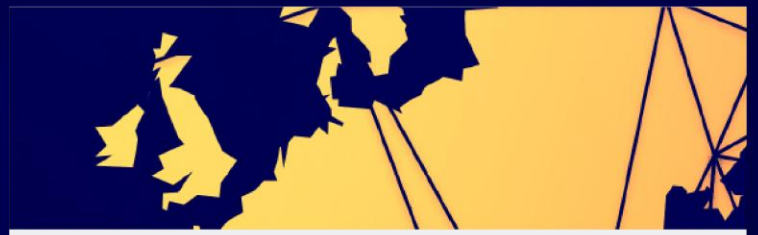

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WBA Networking Party Event

Bar Louie

7.00 PM – 10.00 PM

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TIME: 08:15 AM – 6:00 PM

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Melody Ballroom 1 & 2

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