



Wi-Fi 8 and AI

Andy Davidson

Senior Director, Technology Planning, Qualcomm Technologies, Inc.

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Driving each other forward

Wi-Fi 8

AI



By 2033, **AI is projected to account for 38%**
of all global consumer traffic

Direct AI traffic (from user/system interaction
with AI apps) will grow at a **CAGR of 51%**
(consumer) and **57%** (enterprise).

Creating a new UI across devices



Voice/audio



Text/touch



Photo



Vision



Sensors

AI is the
new UI

The rise of intelligent device ecosystems



Worker safety monitoring



Autonomous robotic coordination



Quality control and defect prevention



Worker assistance



Energy optimization



Predictive maintenance and asset health



The Connectivity Imperatives for AI



Deterministic
Low-Latency



Consistent High
Throughput



Upstream Traffic
Requirements



Ultra-High
Reliability

More speed in more places

Additional and improved modulations
Improved coding



Congestion management

Better spectrum efficiency with
NPCA, DSO and DBE



Deterministic latency in Multi-AP networks

Mitigate latency spikes due to AP contention and client roaming in mesh and enterprise



Better security and privacy

Enhanced management and control
frame protection
11bi privacy improvements



Connected in more places

Enhanced Long Range and Distributed
RU boost effective client range



Context-aware intelligence

Sensing data from 11bf
Proximity/location data from 11az

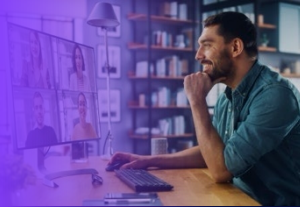


Elevate

Enhancing user experience with
Network AI



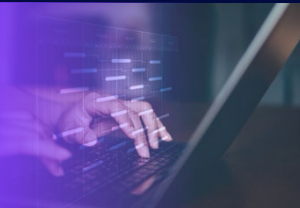
Quality of
experience



Safety and
security



Networking
AIOps

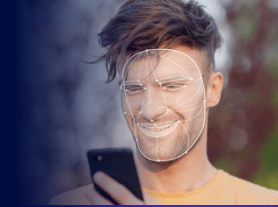


Create

Powering new possibilities with
AI/ML and Generative AI



Facial
recognition



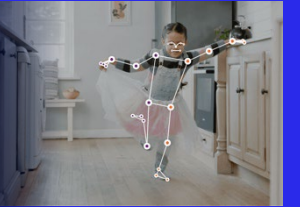
Gesture
recognition



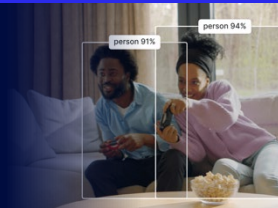
Natural language
processing



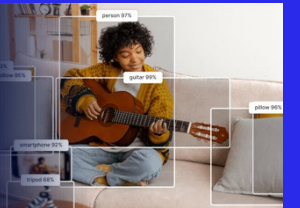
Pose
estimation



Emotion
detection



Object
tracking



The AI Gateway – Bringing AI to the Edge

Transforming legacy smart home devices into intelligent devices



Personalization



Immediacy



Reliability



Privacy



Driving each other forward

Wi-Fi 8

Ultra-reliable performance
Deterministic low-latency
High throughput in real-world conditions

AI

Context aware optimizations
Enhanced QoE
Enabling new services and experiences

Thank you

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