

Video meets 5G Wireless and Web Communication

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End User Expectations

Video

5G

- Better quality entertainment
- Feeling of "presence"
- Natively integrated into apps
- Move data from more sources

- Dramatically more bandwidth
- Lower latency and faster call setup
- Many access technologies
- Real-time multimedia requires IMS



Future Usages and Business Value

New usages

- Multi-device ==> Social, collaborative, real-time, conversational video, screen sharing, business telepresence

New business value

- Markets for mobile operators beyond the "just the phone"
- Home automation, IOT, wearables, connected cars, PCs, Wi-Fi tablets
- OTT is a threat to operator relevance and introduces security risk. Services over IMS / SIM are trusted & secure.
- One SIM card, many devices I can use my number to access services & my contacts across all my devices

Connecting the phone world and the web world

- WebRTC as web/apps front end for IMS/EPC network apps/browsers can behave as a VoLTE device
- Bridges the phone world and the Web world (call a browser)



I Want to Call, Message, IM, Reply from any of my Devices



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NOTE: Apple solution today proprietary

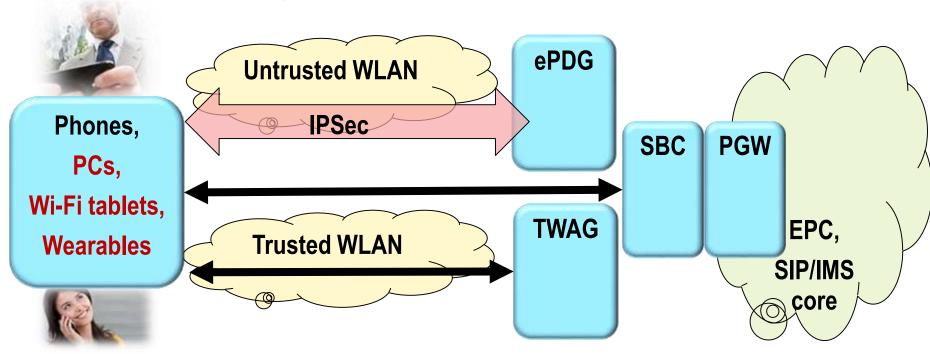
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Multi-Device Calling Expanding 5G, 4G Services to non-SIM Secondary Devices



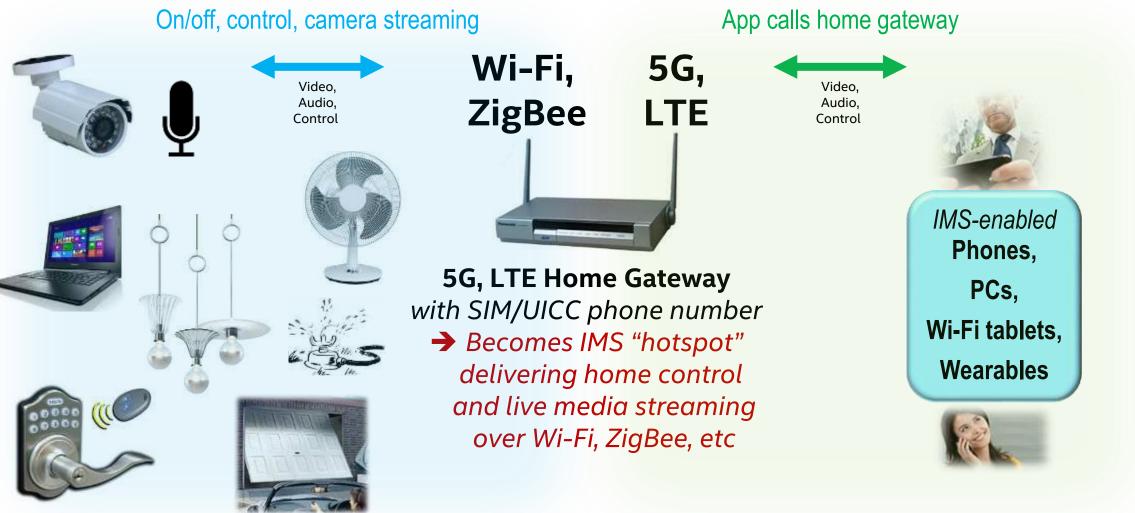
	Trusted WLAN		Untrusted WLAN	
SIM/UICC Card	Yes	No	Yes	No
Authentication	ΕΑΡ-ΑΚΑ	EAP-TTLS EAP-TLS	IKEv2	Username/PIN
VoWiFi client UE	Yes	Yes	Yes	Yes

- Alternative method to authenticate
- Uses network to access credentials in remote SIM from primary device to authenticate user
- Presents Username / PIN challenge to validate locallyconnected secondary device (one time password, e.g. PIN via SMS to primary device)
- After validation, secondary device(s) with IMS client on local WLAN gets IMS services

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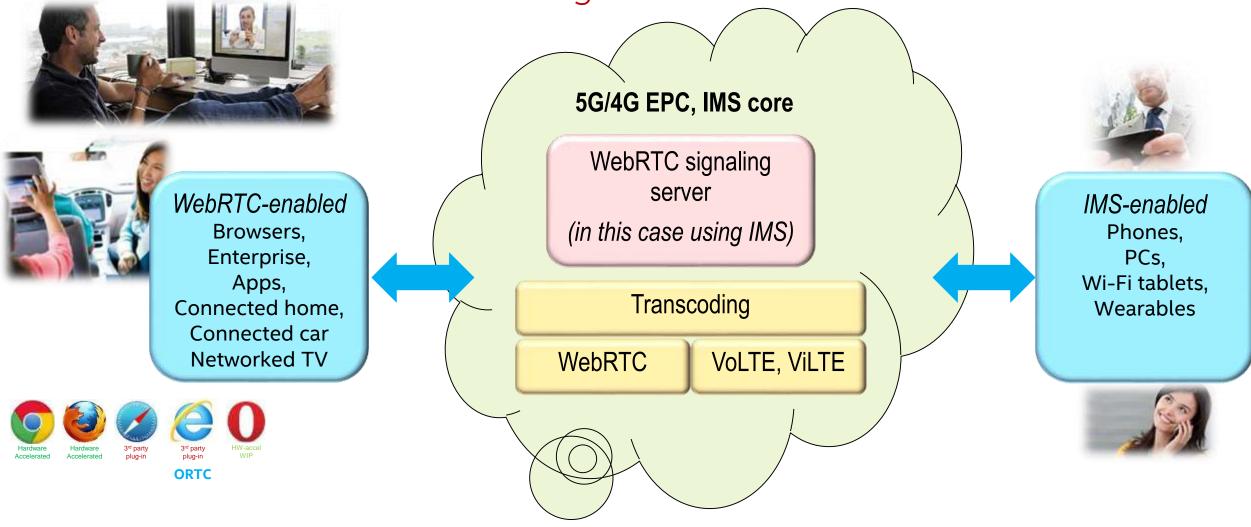
Home Automation, IOT Devices Controlled with Your Phone







Connecting 5G and Web Using WebRTC

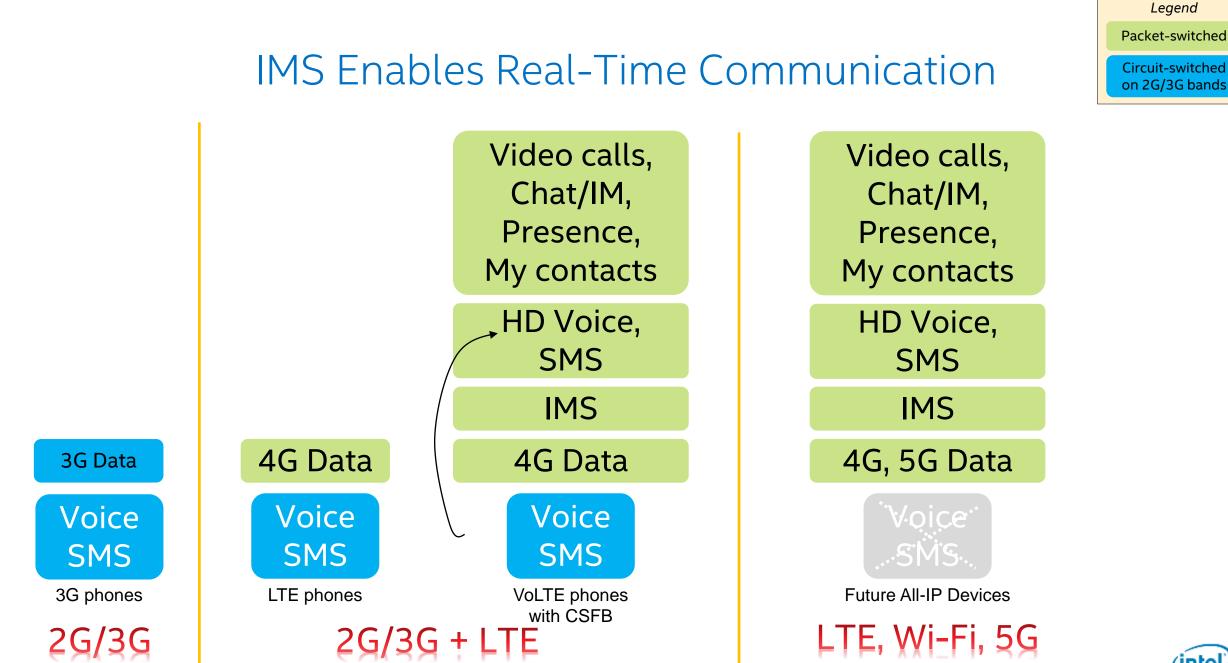


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