

## Mobile & Wireless Roundup #51 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 51st edition of this newsletter. Various regions are going through disruptive climate change. In Europe we have the [hottest weather on record](#), along with floods, hailstorms, tornadoes, etc. This has not been entirely unpredictable as we have seen increasingly extreme weather conditions [last year](#) as well as in the [year before](#). An estimated [61,000](#) people died in Europe last year due to extreme heatwaves.

In addition to all the weather emergencies there are ongoing wars and potential conflicts that may occur. It seems countries are more focussed on claiming and holding on to disputed lands rather than ensuring there is development, peace and prosperity in what they already have. A good lesson from history would be the [Iran-Iraq war](#) 1980-88.

With all this chaos around us, our role in the mobile and wireless industry becomes even more important. We have to invent technologies not just for peace and normal weather scenarios but ruggedise them for all the chaos that is expected to come sooner or later. I should highlight here that I am sceptical about all the future population [forecasts](#), 9.8 billion by 2050 and 11.2 bn by 2100, etc. They are all based on assumptions that everything else in the world will remain constant. Glad to see some [sensible forecasts](#) on that front now but my belief is that due to all this inevitable conflicts and chaos, we will have no more than a billion people on earth by 2100.

For those of you who don't know me, I am a technologist with over 24 years' experience in mobile wireless technology, currently working as an independent advisor, analyst, consultant and a trainer. This newsletter is a summary of my posts and others news that caught my attention since the last newsletter.



## 🕒 6G

- Free 6G Training: Huawei's Keynote at EuCNC & 6G Summit 2023 on 'On the Convergence Route for 6G' ([link](#))
- ETSI releases first Report on Reconfigurable Intelligent Surfaces communication and channel models ([link](#))
- RCR Wireless: Japan's NTT completes successful demo towards 6G ([link](#))

## 🕒 5G

- RCR Wireless: Four barriers to network slicing ([link](#))
- Operator Watch Blog: 5G Coverage in Portugal has Increased Significantly ([link](#))
- Independent, Nigeria - 5G: So Much Noise But Little Manifestation ([link](#))

## 🕒 4G/LTE

- Arcep, France: Inauguration of the 2500th 4G tower put into service as part of the targeted coverage mechanism ([link](#))

## 🕒 2G/3G

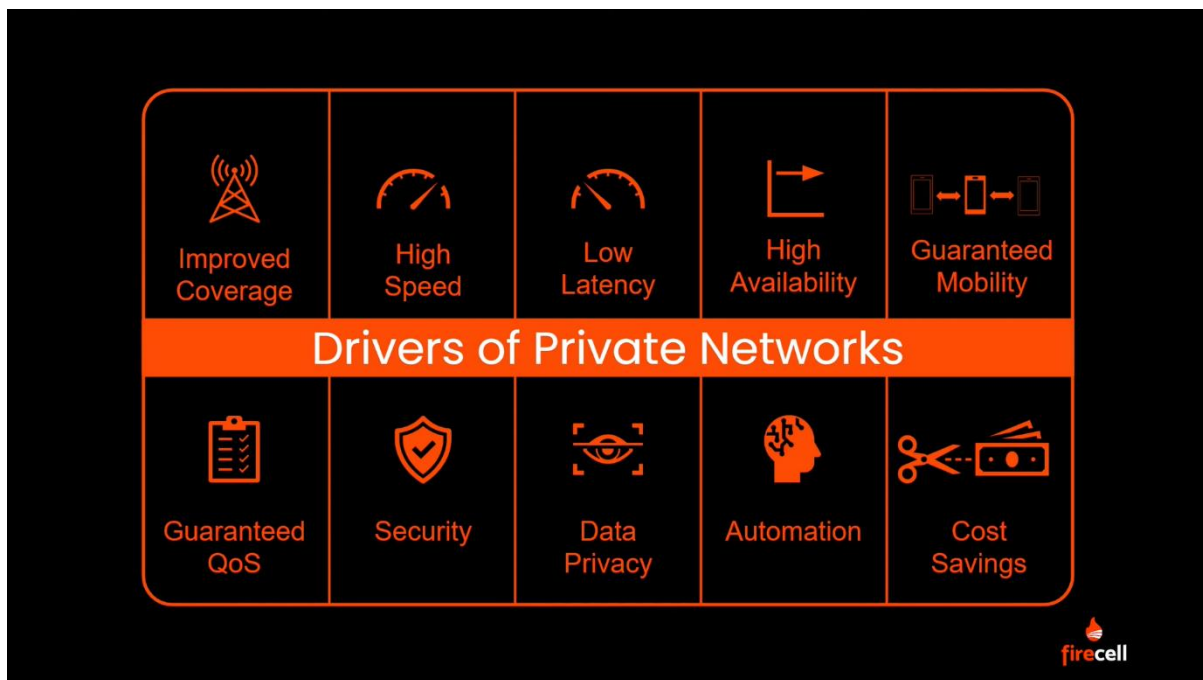
- Opensignal reported in its newsletter, "UK mobile users spent more time connected to 3G services than 5G" linking it to the new Ofcom report, 'Mobile Matters: Using crowdsourced data to assess people's experience of using mobile networks' ([link](#))

## 🕒 Open & Disaggregated Networks (including Open RAN, vRAN, etc.)

- Light Reading: Open RAN's 5G course correction takes it into choppy waters ([link](#))
- ONF Announces New Sustainable Mobile and RAN Transformation (SMaRT) 5G Project ([link](#))
- Patrick Lopez in Light Reading: Europe's big carriers weigh in on open RAN tech specs ([link](#))
- Paul Rhodes on LinkedIn: "Battle of the 2 Armies: Open vRAN's Fudge to keep the Family Together..." ([link](#))

## 🕒 Private Networks

- Firecell: Drivers and Enablers of Private Networks ([video](#))



- Private Networks Technology Blog: Trend Micro Highlights Private 5G Security Risks in Manufacturing ([link](#))
- Dean Bubley on LinkedIn: “Last week I spent a fascinating day at an event run by Spirent Communications and EP90group Ltd, covering trends & test/measurement needs for #Private5G and #PNT (positioning, navigation & timing) systems, particularly in government and defence sectors...” ([link](#))
- Light Reading: With Seattle deployment, Ballast hopes for private wireless maturation ([link](#))
- Telecom TV: Who’s driving private wireless networks demand? ([link](#))

### 🕒 Telecoms Infrastructure, Small Cells, Antennas & others

- Inside Towers: Magnets Make Mounting Antennas to Water Towers a Snap ([link](#))

### 🕒 IoT / M2M / Smart Homes

- RCR Wireless: Sigfox joins LoRaWAN gang – Unabiz signs as contributing member to LoRa Alliance ([link](#))
- Analysys Mason: IoT connectivity will account for nearly 20% of operators’ mobile services revenue from enterprises by 2027 ([link](#))

### 🕒 Virtualization, Cloud & Edge

- Steve Song on LinkedIn: “Inspired (or perhaps provoked is a better word) by the #fairshare debate, I wanted to put together a more comprehensive picture (actually a map) of global CDN infrastructure...” ([link](#))

### 🕒 Security & Privacy

- 5G Network Slicing: Security Considerations for Design, Deployment, and Maintenance ([link](#))
- Ars Technica: How a cloud flaw gave Chinese spies a key to Microsoft’s kingdom ([link](#))
- IT News Aus: Australian government to vet 5G, 6G security in new lab ([link](#))
- Silke Holtmanns on LinkedIn: “2G security was not optimal because the logic was it was too expensive and technically challenging for a normal person to launch and attack. That was

true for some time, but times change. Here we see the same "cycle" with satellite systems..." [\(link\)](#)

- SC Media: Seven new gadgets added to riskiest connected devices list [\(link\)](#)

	IT	IoT	OT	IOMT
1	Computer	Network attached storage (NAS)	Uninterruptible power supply (UPS)	Healthcare workstation
2	Server	Printer	Programmable logic controller (PLC)	Imaging
3	Router	IP camera	Engineering workstation	Nuclear medicine system
4	VPN gateway	Out-of-band management (OOBM)	Building automation	Blood glucose monitor
5	Security appliance	VoIP	Remote terminal unit (RTU)	Patient monitor

Devices highlighted in blue are new to this year's list of riskiest devices. (Source: Forescout)

### 📍 Connected And Autonomous Vehicles (CAVs)

- Small Cell Forum: C-V2X and small cells [\(link\)](#)

### 📍 Smartphones, Devices, Wearables & Gadgets

- FT: Thousands of Russian officials to give up iPhones over US spying fears [\(link\)](#)

### 📍 AI, ML & Automation

- Qualcomm Presentation: Towards an AI-native communications system design - A closer look at how AI can substantively improve wireless performance starting with 5G Advanced [\(link\)](#)

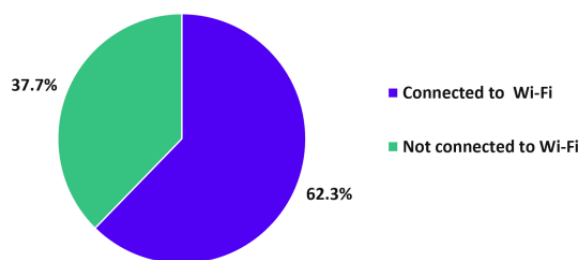
### 📍 Satellites, HAPS, Drones, UAVs & Space

- BT and OneWeb deliver high-speed satellite connectivity to Lundy Island [\(link\)](#)

### 📍 Wi-Fi

- 5G..6G on Twitter: "Some interesting WiFi versus Cellular stats in Ofcom's report and a few threaded comments...Average time spent on WiFi is 62.3% using crowdsourced data from OpenSignal..." (Twitter [thread](#))

Figure 1: Average (mean) proportion of time spent connected to Wi-Fi (%)



Source, Ofcom, using crowdsourced data provided by Opensignal; October 2022 to March 2023 data.

## 🕒 Metaverse & Extended Reality (XR)

- TechRadar: The Quest Pro series may be dead as Meta struggles to stay in the VR game ([link](#))

## 🕒 Public Safety Networks

- Telecoms Infrastructure Blog: T-Mobile USA's Disaster Response Satellite Vehicles, Drones and COWs ([link](#))

## 🕒 Other News and Technology Stuff

- Stocktwits on Twitter: "An NFT of Jack Dorsey's first tweet bought for \$2.9M is now valued at less than \$4" ([Tweet](#) with photo)
- The Guardian: \$7,000 a day for five catchphrases: the TikTokers pretending to be 'non-playable characters' ([link](#))
- John Swarbrick on LinkedIn: "Gartner just published its Site Reliability Engineering hype cycle..." ([link](#))

🕒 **Picture of the week:** I have seen some interesting wireless Jammers in my life, but these STARKOM jammers blow all of them away. Picture source [here](#) and you can read more about them [here](#).



Happy to hear your thoughts. Feel free let me know what worked, what didn't, how I can make this better, etc. Get in touch over LinkedIn!

PDF version of this and previous newsletters are available [here](#).