

Mobile & Wireless Roundup #5

By Zahid Ghadialy

Welcome to the fifth edition of this newsletter on a hot and sunny Sunday morning in London. [Robert Collier](#) once said, "Success is the sum of small efforts, repeated day in and day out." It resonates nicely with my belief that small but consistent changes eventually make a big impact.

For those of you who don't know me, I am a technologist with over 23 years' experience in mobile wireless technology, currently working as an independent 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: ITU-R Working Party (WP) 5D Workshop on "IMT for 2030 and beyond" ([link](#))
- Book review by Dean Bublely - The Metaverse: And How it Will Revolutionize Everything by Matthew Ball ([link](#))
- Are you involved with 6G R&D in any way? If yes, please join our LinkedIn group and contribute to discussions ([link](#))

🕒 5G

- Telecoms Infrastructure Blog: Verizon's Growing Small Cells Footprint ([link](#))
- New Rohde & Schwarz White Paper, '5G NTN takes flight: Technical overview of 5G non-terrestrial networks' ([link](#))
- UPI: SK Telecom to set up 5G communication network for air taxis ([link](#))
- Light Reading: Is Amazon building 5G robots? ([link](#))
- Ericsson Technology Review: Holographic communication in 5G networks ([link](#))
- The Linux Foundation Projects: Implications of the Magma Architecture: Interoperability, Scale and Resilience ([link](#))
- Why the US military wants 5G on the front lines ([link](#))
- A quick refresher on how different types of spectrum is required for providing a perfect 5G coverage ([link](#))
- UK Spectrum Policy Forum Event round-up: Future mmWave demand ([link](#))
- Alexander (Sasha) Sirotkin, Editor of the book "5G Radio Access Network Architecture: The Dark Side of 5G" has a short post on how long does a 5G book remain relevant ([link](#)). He also made a video for us early last year ([link](#)).
- GSMA Intelligence Holds 5G Fixed Wireless Access (FWA) MasterClass ([link](#))

🕒 4G/LTE

- 3GPP SON Series: SON in 3GPP Release-10 – Self-healing ([link](#))

🕒 2G/3G

- Hong Kong MNO SmarTone is shutting down their 2G in October and using the spectrum for 4G and 5G ([link](#))
- For people who enjoy history, 2G-GSM presents a history of 2G GSM (Global System for Mobile Communications) technologies with a focus on mobile network infrastructure ([link](#)). Some good pictures on their Twitter as well [here](#).

🕒 Open RAN

- Microsoft Azure Whitepaper: Bringing Cloud Security to the Open RAN ([link](#))
- Australia: Open RAN workgroup to improve rural and regional mobile coverage ([link](#))
- Nice video by IBM Technology on vRAN vs. RAN: What's the difference? ([link](#))
- Light Reading: Rakuten outs Cisco, Mavenir, NEC as 1&1 suppliers ([link](#))

🕒 Private Networks

- Light Reading: Dutch 'mainports' make case for private 5G ([link](#))
- AWS Private 5G is now generally available ([link](#)). Gabriel Brown, analyst from Heavy Reading, points out that the pricing for each radio unit is billed at \$10 per hour, with a 60 day minimum. "That's \$87K a year! For one radio (if you don't switch it off)" ([Tweet](#))
- You may also be interested in this old post on Telecoms Infrastructure Blog: AWS for Public and Private 5G Networks ([link](#))
- BBC R&D: Using private 5G networks for live Commonwealth Games coverage ([link](#))

🕒 IoT / M2M

- MWL: Roaming IoT connections tipped for surge ([link](#))

🕒 Security & Privacy

- Wired: One of 5G's Biggest Features Is a Security Minefield ([link](#))
- ISO 27002 provides a reference set of generic information security controls including implementation guidance. With the new 2022 revision 11 new controls have been added. ([link](#))
- European Union Agency for Cybersecurity (ENISA) Threat Landscape for Ransomware Attacks ([link](#))
- Slides: Attacks from a New Front Door in 4G & 5G mobile networks by Dr. Altaf Shaik & Shinjo Park from Blackhat USA 2022 ([link](#))

🕒 Connected And Autonomous Vehicles (CAVs)

- Scintillation Research: 3GPP Technical Specifications on V2X ([link](#))

🕒 Artificial intelligence & Machine Learning

- The 3G4G Blog: AI/ML Enhancements in 5G-Advanced for Intelligent Network Automation ([link](#))

🕒 Other News and Technology Stuff

- Isaac Asimov Asks, "How Do People Get New Ideas?" ([link](#))
- Telecom TV: SoftBank falls on hard times ([link](#))
- MWL: Bangladesh-based Robi Axiata shifts to solar to power cell sites ([link](#))
- Light Reading: Telcos spend pathetically little on R&D, and it's often shrinking ([link](#))

- CCS Insight: European Operators' Dubious Attempt to Make Big Tech Pay ([link](#))
- MIT Technology Review: Corruption is sending shock waves through China's chipmaking industry ([link](#))
- ArsTechnica: Man who built ISP in Rural Michigan instead of paying Comcast \$50K expands to hundreds of homes ([link](#))
- Opensignal has two new reports on Canada: Mobile Network Experience Report ([link](#)) and 5G Experience Report ([link](#))

📍 **Picture of the week**

- COW Setup ([link](#))

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!