Mobile & Wireless Roundup #30 (see original on LinkedIn!)

By Zahid Ghadialy

Welcome to the 30th edition of this newsletter. Every time a generation of technology matures and the next generation is not ready, companies have to re-evaluate their strategies and as a result many people lose their jobs. I fell victim to these cuts during 3G and 4G days. Now many of the people I worked with in mobile cellular communications are going through the same fate with 5G deployments slowing and no 6G in the horizon.

There are quite a few challenges with 5G, many of which I have written about in various blog posts. The bottom line is that most operators are happy with 5G NSA Release-15. The adoption of 5G Standalone has been slow. This means that many of the advanced features that should be coming with 5G SA haven't yet seen the light of the day. The 3GPP standards are working on Rel-18 and have a list of items for Rel-19 but who knows when even Rel-17 features will be deployed.

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 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: Maximizing the Impact of European 6G Research through Standardization (link)
- Connectivity Technology Blog: Next Generation Multiple Access – New Challenges & New Opportunities (link)
- Ookla: Latency is the Next Frontier of Consumer Experience. Are You Ready? (link)

◉ 5G

- Managing 5G Signalling Storms with Service Communication Proxy (SCP) (link)
- Ericsson's Massive MIMO handbook 2022, First edition extended, is a valuable resource for anyone interested in RF (link)
- 5GCoreNetSDK is an open source project that provides a set of APIs to access or provide services in 5G Core Network. The APIs are based on the 3GPP specifications and are implemented in Golang. (link)
- Tefficient on Twitter: "The annual report from @Swisscom is full of criticism re. Switzerland's 5G build processes: "Customers complain about gaps in coverage, but at the same time

Swisscom alone has more than 2,000 outstanding objections to building applications for 5G masts."
https://reports.swisscom.ch/download/2022/en/swisscom_geschaeftsbericht_gesamt_2022_en.pdf Swisscom currently covers 99% of the Swiss population with a basic version of 5G and around 74% with 5G+" (Tweet)

◉ 4G/LTE

- Twitter discussion on Fixes Wireless Access (FWA) by Stephen Speirs (Tweet) – fantastic discussion on Tefficient Tweet as well.

◉ 2G/3G

- Total Telecom: Bouygues Telecom, the French operator, said it will shut down its 2G networks in 2026, followed by its 3G network in 2029 (link)

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

- MWL: Mavenir takes open RAN to Paradise (link)
- TIP: OpenRAN Orchestration Lab Testing Successful Completion (link)
- Telecom Infra Project on Twitter: "One year ago, the TIP Community Lab in Indonesia opened. The TIP Community Lab was the first of its kind in South East Asia, but it's already proven to be a worthwhile investment. Learn more: https://telecominfraproject.com/clabs/ #telecominfraproject #openRAN" (Tweet)

◉ Small Cells & other Telecoms Infrastructure

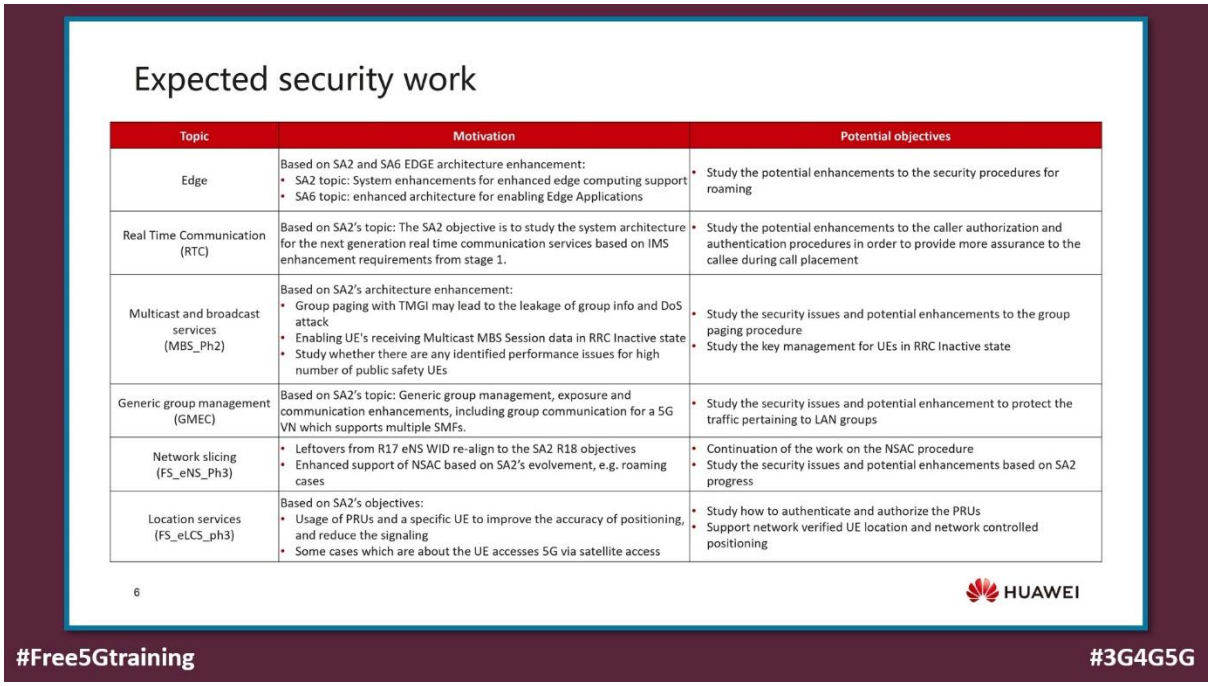
- Light Reading – USA: The small cell waiting game starts again (link)

◉ IoT / M2M / Smart Homes

- RCR Wireless: Quickening scale with LoRaLAN, says LoRaWAN stalwart – TTI passes million mark (link)

◉ Security & Privacy

- A good summary of Expected Security Work by 3GPP SA3 in 3GPP Release-18 (link)



◉ Smartphones, Devices, Wearables & Gadgets

- With Dual SIM Dual Active (DSDA) smartphone launches getting popular, it's worth refreshing the Multi-SIM Terminology & Jargon (link)

◉ AI, ML & Automation

- FutureNet World - Telefónica's network automation: the whole is greater than the sum of the parts (link)
- DCD: Meta to cut data center spend by $4bn, says new AI facilities will be cheaper & faster to build (link)
- TIP RIC-Rolls OpenRAN innovation with RAN Intelligence and Automation (RIA) Group (link)

◉ Satellites, HAPS, Drones, UAVs & Space

- Telecoms Infrastructure Blog: Evolution of AT&T's Flying COW (Cell on Wings) (link)

◉ Wi-Fi

- Tbhaxor: Offensive Wi-Fi Security (link)

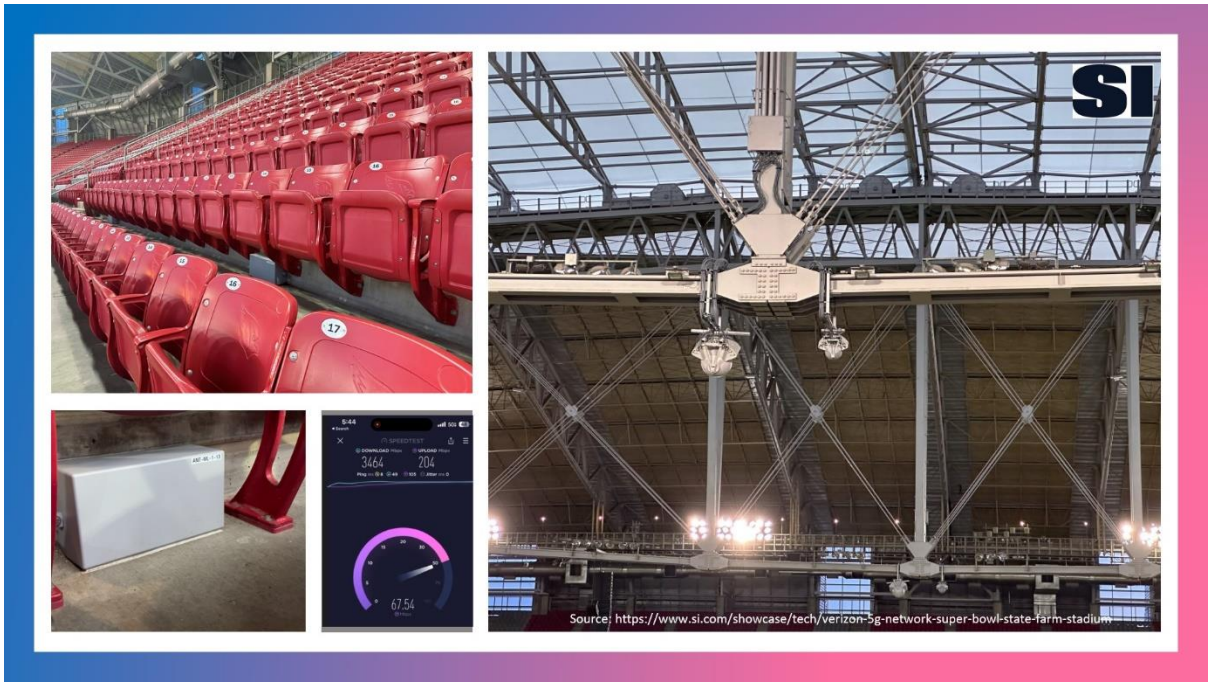
◉ Sustainability

- Norton Rose Fulbright - Short update: the European Council adopts the Corporate Sustainability Reporting Directive (CSRD) (link) – you can also follow this discussion on Twitter here.

◉ Other News and Technology Stuff

- Nick Hunn: The Silicon Black Swan Event (link)
- Chronos: Benefits of Multi-Band and Multi-Constellation GNSS (link)
- A good summary of Interoperability testing (IOT) (link)

◉ **Picture of the week:** The US operators invest heavily in making sure that the fan experience is the best for people visiting during Super Bowl. This article from Sports Illustrated details some of the Verizon infrastructure upgrade from State Farm Stadium in Phoenix, AZ, for Super Bowl LVII. You may also enjoy reading our old blog posts here, here and 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.