

Mobile & Wireless Roundup #23 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 23rd edition of this newsletter. This year was full of ups and downs. It started with a bang, everything was looking positive but ended on a downer with stagnation and lay-offs. As someone who has experienced quite a few lay-offs, I realised that my approach to continuous learning, creating content, sharing information didn't just help others but helped me immensely. I hope that I continue this next year.

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.



🕒 2023 Predictions

- IBM Technology Video: Cybersecurity Trends for 2023 ([link](#))
- Maravedis: WiFi Predictions for 2023 ([link](#))

🕒 6G

- Free 6G Training: 6G - The Next Horizon, a White Paper by Huawei ([link](#))
- TechMonitor: The 5G hype cycle is cooling enthusiasm for 6G ([link](#))

🕒 5G

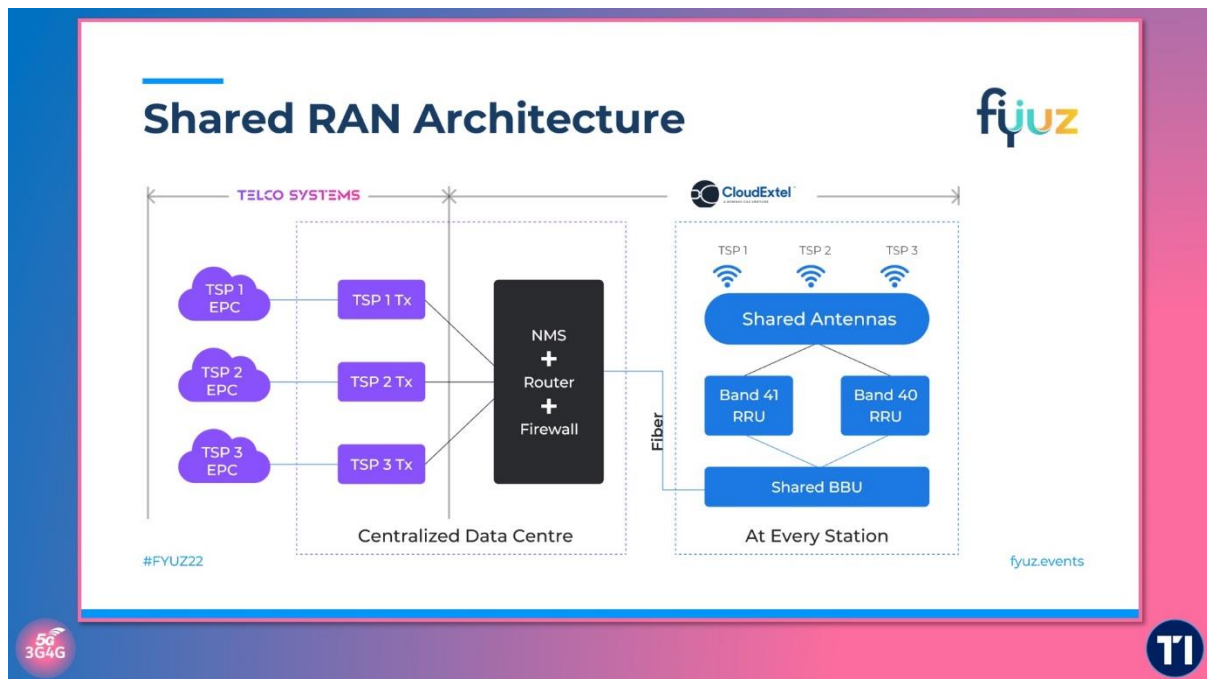
- The 3G4G Blog: 3GPP Release 17 Description and Summary of Work Items ([link](#))

A graphic titled '3GPP Release 17' with a blue and purple gradient background. It lists various features in three columns. The first column includes NR MIMO, NR Sidelink enh., 52.6 - 71 GHz with existing waveform, Dynamic Spectrum Sharing (DSS) enh., Industrial IoT / URLLC enh., IoT over Non Terrestrial Networks (NTN), NR over Non Terrestrial Networks (NTN), NR Positioning enh., Low complexity NR devices, Power saving, NR Coverage enh., NR eXtended Reality (XR), NB-IoT and LTE-MTC enh., 5G Multicast broadcast, Multi-Radio DCCA enh., Multi SIM, and Integrated Access and Backhaul (IAB) enh. The second column includes NR Sidelink relay, RAN Slicing, Enh. for small data, SON / Minimization of drive tests (MDT) enh., NR Quality of Experience, eNB architecture evolution, LTE C-plane / U-plane split, Satellite components in the 5G architecture, Non-Public Networks enh., Network Automation for 5G - phase 2, Edge Computing in 5G, Proximity based Services in 5G, Network Slicing Phase 2, Enh. V2x Services, Advanced Interactive Services, and Access Traffic Steering, Switch and Splitting support in the 5G system architecture. The third column includes Unmanned Aerial Systems, 5G LoCatlon Services, Multimedia Priority Service (MPS), 5G Wireless and Wireline Convergence, 5G LAN-type services, and User Plane Function (UPF) enh. for control and 5G Service Based Architecture (SBA). A small note at the bottom right states: 'These are the Rel-17 headline features, prioritized during the December 2019 Plenaries (TSG#86)'. At the bottom left is the hashtag '#3G4G5G' and at the bottom right is a circular icon with '5G 3G4G'.

- Sony and KDDI Succeed at Concurrent Communications Using Multiple Network Slices in 5G Standalone ([link](#))
- Telemedicine using Ultrasonography and Telerehabilitation with 5G communication system in aging and depopulated mountainous area in Japan ([link](#))
- Operator Watch Blog: The Maldives - Making Slow Progress with 5G ([link](#))

🕒 4G/LTE

- Telecoms Infrastructure Blog: Details on India's First Neutral Shared RAN Solution ([link](#))



🕒 2G/3G

- Commsupdate: Orange Slovakia to complete 3G shutdown a year early ([link](#))
- Tusass in Greenland will be closing 3G connections in 2023 ([link](#))

🕒 Open RAN/vRAN

- TelecomTV: O-RAN Alliance claims interop advances ([link](#))
- Establishment of "Japan OTIC" in Yokosuka City as a test and certification base for equipment such as base stations based on international standards established by O-RAN ALLIANCE ([link](#) in Japanese)
- Microsoft Innovation in RAN Analytics and Control ([link](#))

🕒 Spectrum

- Korea JoongAng Daily: SK, KT, LG U+ 5G spectrum being repossessed ([link](#))

🕒 Private Networks

- Japan's Efforts to Promote the Prevalence of Local (Private) 5G ([link](#))

🕒 IoT / M2M / Smart Homes

- The Verge: Here's what it's like to use the first Matter devices in the real world ([link](#))

🕒 Security & Privacy

- Enduring Security Framework (ESF) Potential Threats to 5G Network Slicing ([link](#))

🕒 Smartphones, Devices, Wearables & Gadgets

- Counterpoint: ASP Rise of 10% YoY Limits Q3 2022 Global Handset Revenue Fall to 3% YoY ([link](#))
- 1 out of 2 phones launched in India in Q3 2022 used a MediaTek processor according to Techarc ([link](#))

🕒 Artificial intelligence & Machine Learning

- Telecom TV - ETSI's Activities in Artificial Intelligence: New White Paper ([link](#))

🕒 Satellite Connectivity

- Tweet by SpaceX: *"Starlink now has more than 1,000,000 active subscribers – thank you to all customers and members of the Starlink team who contributed to this milestone 🧡🚀🌍 <http://starlink.com>"* ([Tweet](#))
- The Verge: Delta will reportedly make its in-flight Wi-Fi free ([link](#))

🕒 Wi-Fi

- Will Wi-Fi Help 3GPP Bring Reliable Connectivity Indoors? ([link](#))

🕒 Metaverse

- Light Reading: Meta promises to double down on the metaverse in 2023 ([link](#))
- Meta: Why we still believe in the future ([link](#))

🕒 Other News and Technology Stuff

- Understanding the Total Cost of Ownership (TCO) of a Mobile Network ([link](#))
- Vodafone's mobile network has a digital twin ([link](#), LinkedIn [discussion](#))
- ETSI - First deliverable for NFV Release 5 feature: applying SBA design style to NFV-MANO ([link](#))
- Telegeography - China's New Arrival: Say Hello to Broadnet ([link](#))
- AltFi: UK's \$1trn tech sector takes #1 spot in Europe in 2022 ([link](#))

🕒 **Picture of the week:** It's Christmas, it's winter, it's cold and it's freezing. Here is a completely frozen tower from Sugarloaf Mountain in Maine, USA (source: Neville Ray, President of Technology at T-Mobile on [Twitter](#))



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](#).