

## Mobile & Wireless Roundup #38 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 38th edition of this newsletter. Many different gadgets in our homes now have Wi-Fi connectivity although I sometimes wonder how helpful that actually is. For example I saw a toaster and a kettle with Wi-Fi. I can see the advantage of being able to start boiling/toasting a few minutes earlier remotely but surely that's not worth the extra power consumption and security risks.

One of my pet peeves is when the software upgrades break something that's already working correctly and there is no solution to fix it. On top of that, some smart device companies do not have a call centre, only a chat to the chatbot, or there is a long queue if you want to reach them by phone.

What happens when the smartphone that you use as a smart key for everything and for payments gets broken, lost or stolen. You may have a backup device or a key but that may be locked in the house. You may be in another country with now no means to pay. There are so many other challenges.

The worst is if the company on whose products you rely on either goes out of business or decides it no longer wants to support the products. Do you go around changing all the gadgets affected? If the software upgrade issues waste couple of your days every month, how long will you continue to rely on these smart gadgets? There are many organisations trying to solve some of these issues but mass smart homes adoptions are still a long way away.

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.



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- Free 6G Training: ZTE's 6G Presentation and Beyond 5G Whitepaper ([link](#))
- Japan Forward: Will NTT's 6G Initiative Surpass China's 5G Technology? ([link](#))

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

- RCR Wireless: How will 5G Standalone open up new monetization opportunities? ([link](#))
- Operator Watch Blog: Little Progress on 5G in Egypt ([link](#))
- Presentations from 3GPP and other SDOs in ETSI's Summit on Sustainability ([link](#))

**Sustainability in 3GPP - Three aspects**

- Energy Efficiency: KPIs and measurements, Measurement method
- Energy Saving: Use cases and solutions to optimize the Energy Efficiency
- Digital Sobriety: Eco-friendly usage, Eco-design

**3GPP organization**

Project Contribution Group (PCG) → Technical Groups (TG) → Working Groups (WG) → Study Groups (SG) → Experts (EX)

**Energy Efficiency**

- EE KPI definitions
- From Rel-17, the focus extended to RAN + CN + network slicing
- Based on measurements collected on RAN or CN network elements / network functions via OA&M
- Principles:
  - Rely on ETSI TC EE specifications as much as possible
  - Extend only if and where needed

**Energy Efficiency - Introduction**

3GPP generic EE KPI = Performance / Energy Consumption

Performance measurements: Performance measured based on data volume, latency, nb. of UEs, etc.

Energy Consumption measurements: P/E (Power, Energy, Environmental) parameters, based on input from ETSI ES 263 936-12, Extensions for virtualization

QoM general purpose performance measurement collection method

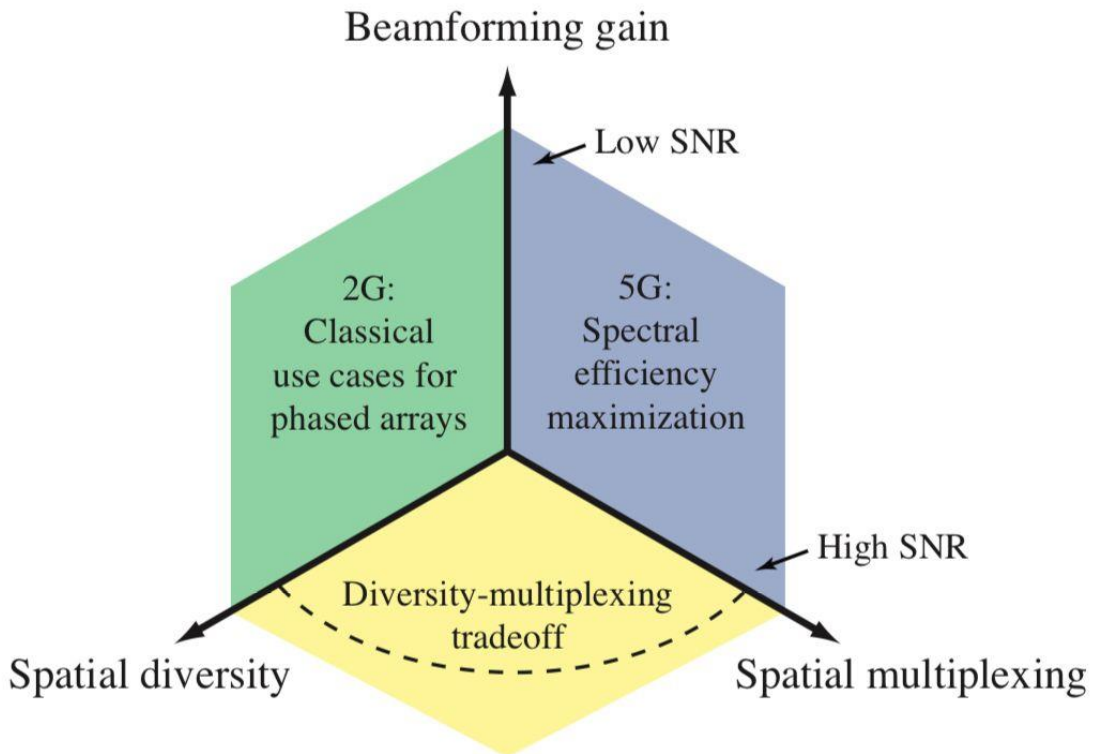
3GPP defined EE KPIs for: 3G, 4G, 5G RAN, 5G Core Network slice

#Free5Gtraining

#3G4G5G

☉ Small Cells & other Telecoms Infrastructure

- Emil Björnson on LinkedIn: "I have summarized the last "25 Years of Signal Processing Advances for Multiantenna Communications" together with..." ([link](#))



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

- Rakuten Symphony - Top 10 Benefits of Open RAN: A Comprehensive Breakdown ([link](#))
- Paul Rhodes on LinkedIn - OpenRAN: Schrödingers Silicon ([link](#))
- TelecomTV on YouTube: Why Japan's MIC is funding Open RAN testing in Europe ([video](#))
- Light Reading: 'Rip and replace' lobbying grows louder ([link](#))

## 🕒 Spectrum

- ITU finalizes report on preparatory studies for the 2023 World Radiocommunication Conference ([link](#))

## 🕒 Private Networks

- MWL: NTT, SES take private 5G to the skies ([link](#))

## 🕒 Security & Privacy

- GSMA 5G Futures Summit: Strengthening 5G Security in 2023 ([link](#))
- Netscout 5th Anniversary DDoS Threat Intelligence Report ([link](#))
- InfoSecurity Magazine: UK Discloses Offensive Cyber Capabilities Principles ([link](#))
- The Register: With ICMP magic, you can snoop on vulnerable HiSilicon, Qualcomm-powered Wi-Fi ([link](#))

## 🕒 Connected And Autonomous Vehicles (CAVs)

- Reuters Special Report: Tesla workers shared sensitive images recorded by customer cars ([link](#))

## 🕒 Smartphones, Devices, Wearables & Gadgets

- Counterpoint Survey: 28% of US Smartphone Users Highly Likely to Opt for a Foldable as Next Purchase ([link](#))
- Implausible Blog on YouTube: Smartphones and Gadgets from CES2023 & MWC23 ([video](#))

## 🕒 AI, ML & Automation

- The Information: AI Developers Stymied by Server Shortage at AWS, Microsoft, Google ([link](#))
- Techradar: Samsung workers made a major error by using ChatGPT ([link](#))

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

- MWL: One New Zealand sheds old branding, inks SpaceX deal ([link](#))

## 🕒 Metaverse

- TelecomTV: Zuckerberg remains committed to the metaverse as Disney throws in the towel ([link](#))

## 🕒 Sustainability

- The 3G4G Blog: ETSI's Summit on Sustainability: ICT Standards for a Greener World ([link](#))



- Vodafone adopts tech to drive energy efficiencies and reduce carbon emissions ([link](#))

🕒 **Other News and Technology Stuff**

- Rhodium Group - Running on Ice: China's Chipmakers in a Post-October 7 World ([link](#))

📸 **Picture of the week:** KDDI is introducing in-vehicle base stations (left) and portable base stations (right) that use the satellite broadband service "Starlink" as backhaul lines nationwide. The aim is to provide customers with high-speed, low-latency au communications even in the event of a disaster. ([Source](#))



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](#).