



Mobile & Wireless Roundup #64 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 64th edition of this newsletter. Last week I was giving an example from 9-10 years ago, when the 4G deployments slowed down while the 5G standardisation was yet to start. We are in a similar situation today as 5G deployments are slowing down while 6G standardisation has yet to begin. There have been rumours and news of layoffs from many different companies but the [big one](#) that got announced this week as well as some [others](#) in the last few weeks will be impacting a huge number of people in our industry.

I know a few people who were at the same company for over 20 years (30 years in one case) and they took learning for granted. While it is possible that some people are close to retirement age and can afford to retire, and will retire, others may still need a job for years to come.

The best approach, and yes this requires investment of personal time and effort, is to continue learning, every day and every week. It doesn't have to be technical. It could be something you love to do part time. A former colleague was a closet artist. As years progressed he started to rekindle his love for art. After being laid off many years back, he has managed to successfully showcase his talents. You can see Andrew's website [here](#).

Another former colleague I spoke to recently told me that after years of being a manager, he has started learning about cloud computing and brushing up on programming. You never know when it may be needed.

While I may be busy with work, making videos or writing blogs, I try and take out time to learn some small things here and there. Currently I'm doing an [AI course](#) on FutureLearn. One of the 'New Skills Now' areas that it talks about in week 3 of the course is 'Lifelong Learning'. Quoting from the course material:

“Lifelong learning underpins our seven other skill areas and is vital to adapt to the changing world of work. No matter what stage of life we’re at, we can always challenge ourselves to learn new things. The basis of lifelong learning is a growth mindset – the belief that you can develop your skills and abilities with effort, practice, and the right approach!”

Conferences and seminars are also a great place for learning. I am [organising a short seminar](#) on ‘Impacts of AI on security and privacy’. It’s an in-person event in London and free to attend. You are welcome to join.

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 - Twelve Scientific Challenges for 6G: Rethinking the Foundations of Communications Theory ([link](#))
- Prof. Theodore (Ted) Rappaport Keynote at EuCNC & 6G Summit 2023 on 'Looking Towards the 6G Era - What we may expect, and why' ([link](#))
- 6G SNS: The Smart Networks and Services Joint Undertaking (SNS JU) has announced the 27 winners of its second call for proposals, with a €130 million funding boost ([link](#))
- Jinsung (Alex) Choi on LinkedIn: Open Architecture 6G O-RAN ([link](#))

🕒 5G

- 3GPP EDGEAPP: Roaming, Federation and Edge Node Sharing ([link](#))
- Light Reading - N6-LAN: A new generation of data plane LAN service functions for 5G? ([link](#))
- The Spanish government has launched €544 million rural 5G SA tender ([link](#))

🕒 4G/LTE

- Operator Watch Blog: Rwanda got 4G, Satellite Connectivity and Possibly Stratospheric 5G ([link](#))

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

- Jinsung (Alex) Choi on LinkedIn: O-RAN Alliance Open Testing and Integration Centre (OTIC) Overview ([link](#))
- SDX Central - Open RAN: Winter is coming — and it may be a long one ([link](#))
- Jinsung (Alex) Choi on LinkedIn: O-RAN Test Knowledge Sharing ([link](#))
- RCR Wireless: O-RAN can power greener indoor 5G networks ([link](#))

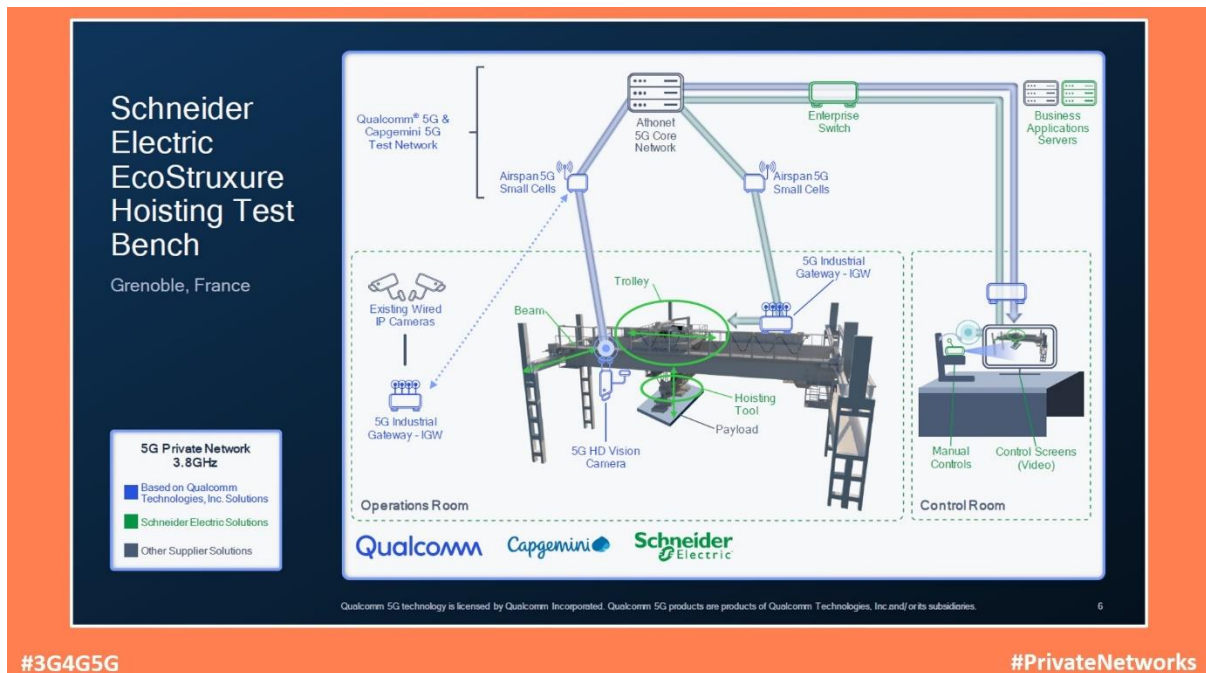
- Jinsung (Alex) Choi on LinkedIn: Open RAN Standardization, System Implementation, Multi-Vendor Integration, Testing and Certification ([link](#))
- Jinsung (Alex) Choi on LinkedIn: O-RAN RIC Interoperability and xApps/rApps Portability ([link](#))
- Jinsung (Alex) Choi on LinkedIn: O-RAN RIC xApp/rApp portability (part2) ([link](#))
- Teral Research: Fyuz23 Standout Moments ([link](#))
- Jinsung (Alex) Choi on LinkedIn: ChatOps for Human Network Operators ([link](#))

🕒 Spectrum

- Vijay Nagarajan on LinkedIn: "Momentous day for Wi-Fi. Federal Communications Commission unanimously approved the use of Very Low Power (VLP) Portable devices operating in the 6 GHz band. So what is this about?..." ([link](#))
- UK SPF Report: Review of use case requirements in the 3.8-4.2GHz band ([link](#))

🕒 Private Networks

- Private Networks Technology Blog: Accelerating Crane Automation and Digital Industries of the Future with 5G ([link](#))



- Dean Bublely on Twitter: "Interesting from NKOM about private network spectrum in Norway - had limited uptake so far it seems, but running a forum for industry to feed back. I suspect part of the problem is that many Norway industries like oil, forestry etc span larger areas than 3.8-4.2GHz can cover" ([Tweet](#) with photo)

🕒 Telecoms Infrastructure, Small Cells, Antennas & others

- Dean Bublely on LinkedIn: "The range of commercial and technical models for #IndoorWireless & #NeutralHost (NHN) is huge. The architecture and "who pays?" depends on the specific context..." ([link](#))
- Jamie Hayes on LinkedIn: TLDR: in-building connectivity, a problem shared ... ([link](#))
- Paul Rhodes on LinkedIn - Thursday School : Can We De-cabinetise? ([link](#))

🕒 IoT / M2M / Smart Homes

- BT Group, Nokia and MediaTek trial 5G RedCap technology to accelerate IoT ([link](#))

🕒 Virtualization, Cloud & Edge

- ETSI MEC: An Introduction - (almost) everything you want to know about ETSI MEC ([link](#))

🕒 Smartphones, Devices, Wearables & Gadgets

- K-Tai Watch, Japan: 5G feature phones coming soon in Europe ([link](#))

🕒 AI, ML & Automation

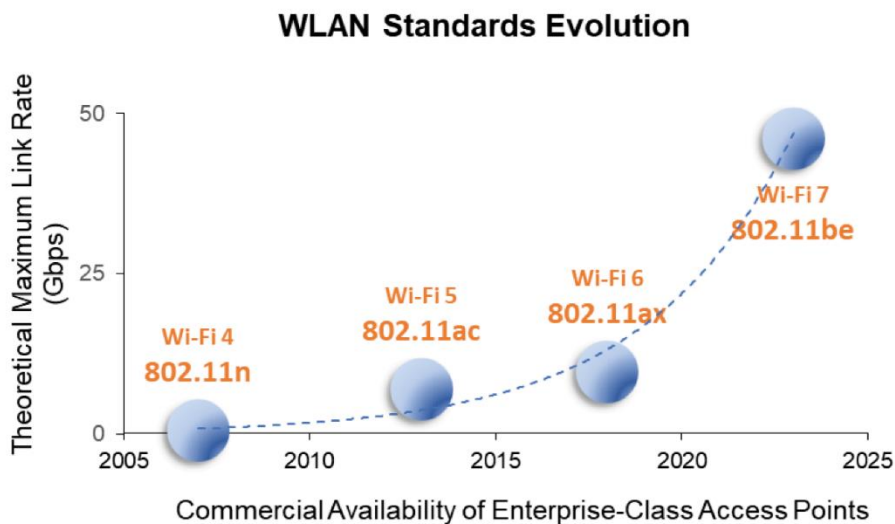
- Dell'Oro: The Role of Artificial Intelligence/Machine Learning in the 5G Core ([link](#))
- Air Street: State of AI Report 2023 ([link](#))
- Telecom TV DSP Leaders Report: Telecom's take on AI ([link](#))
- Jinsung (Alex) Choi on LinkedIn: How New Parallel Processing Accelerators are Shaping AI and Open RAN Industries? ([link](#))

🕒 Satellites, HAPS, Drones, UAVs & Space

- Stan Shull on Twitter: "Interesting panel discussion at SatNewsMedia's #MilSatSymposium #SiliconValleySpaceWeek about proliferated LEO constellations." (Twitter [thread](#))
- Aravind on Twitter: "Here is the latest update to the commercial Earth observation satellite market landscape..." ([Tweet](#) with photo)

🕒 Wi-Fi

- Dell'Oro: Wi-Fi 7—A New Reality for Enterprises ([link](#))



Source: Dell'Oro Group



🕒 Public Safety Networks

- Urgent Communications: September 3GPP Plenary meetings feature Release 18 progress, Release 19 beginnings ([link](#))

🕒 Other News and Technology Stuff

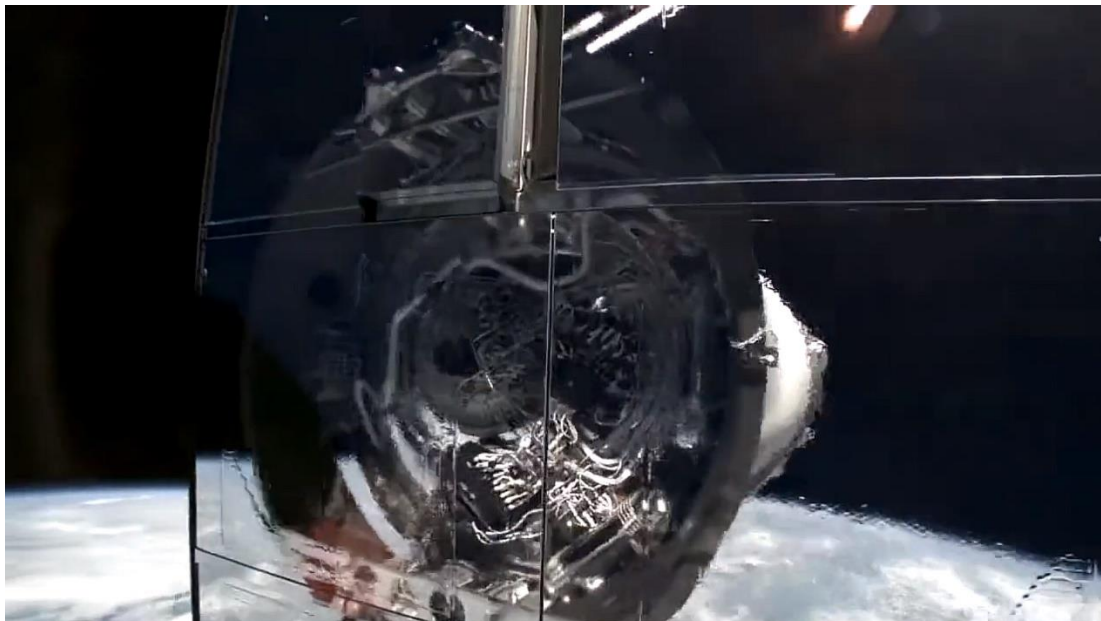
- Connectivity Technology Blog: Li-Fi and Other Visible Light Communications (VLC) Standards ([link](#))

Standard Name	IEEE 802.15.7	IEEE 802.15.13	IEEE 802.11bb
Published date	April 2019	August 2023	June 2023
Technology	Specifies PHY and MAC for impulse radio ultra wideband (UWB) wireless ad hoc connectivity	Introduces a new MAC and two PHY layers enabling high reliability, low latency, and low power transmission	Defines how to reuse the 802.11 MAC and OFDM based PHYs over optical links
Wavelength	10,000nm to 190nm	10,000nm to 190nm	800 to 1,000 nm
Theoretical max data rate	11.67kbps to 96Mbps	11.67kbps to 10Gbps	10Mbps to 9.6Gbps
Use cases	Application domains such as indoor localization, gesture recognition and vehicular networking	Industrial and Medical applications	Residential consumer applications like Wi-Fi

Connectivity. Technology #3G4G5G

- The Guardian: Fears of employee displacement as Amazon brings robots into warehouses ([link](#))

🕒 **Picture of the week:** Today we have a video of SpaceX Starlink Satellite Deployment that they shared on Twitter [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](#).