



Mobile & Wireless Roundup #82 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 82nd edition of this newsletter. You must have heard that Mobile World Congress (MWC) is huge but I will tell you it's beyond huge. Even after spending 4 days walking on the show floor I feel like I haven't seen anything. I am still finding nuggets of information all over LinkedIn and Twitter.

Many companies exhibiting out there are big believers in the slogan, "go big or go home". Their hope is to find enough customers to support them for the coming year or a buyer to buy them out. As a small business it takes me time to process all the information and in past I have reached out to companies six/eight months after MWC only to discover they have closed up shop.

It's nevertheless an amazing experience and I always tell people working in our industry to experience it at least once in their lifetime. Anyway, what is interesting to see is that the MWC dates have been shifted by a week next year. Instead of the usual last week of February, it will be in the first week of March; 3 – 6 March 2025.

These dates will also be interesting because they will now fall in the first week of Ramadan 2025. A lot of Muslims are very focussed on fasting and prayers during this month and try their best to avoid long distance travel.

You may have recently seen or wished "Happy Lunar New Year" on the occasion of Chinese [Lunar New Year](#) on 10th Feb, last month to be precise. Even though we call these 'Lunar calendar', they are actually based on what is known as '[Lunisolar calendar](#)'.

All calendars that refer to [Lunar calendar](#), with the exception of Islamic and Javanese calendars, are Lunisolar calendars. The actual Lunar calendar year is 11/12 days smaller than solar calendar, hence the months and the festivals move. This can be advantageous or not depending on your viewpoint. Take for example the most popular solar calendar holiday in the world this is of course Christmas day

on 25th December. While it is cold and snowy in the western hemisphere, it is generally a very hot day in the southern hemisphere. Wouldn't it be nice if people were able to experience this holiday in all seasons over time?

For those of you who don't know me, I am a technologist with over 25 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 other news that caught my attention since the last newsletter.



This newsletter is kindly sponsored by Firecell - the Private 5G experts

🕒 MWC 2024 Summaries

- GSMA MWC Barcelona 2024 in Numbers ([link](#))
- Firecell: Summary of Mobile World Congress Barcelona 2024 ([link](#))
- Dell'Oro: MWC Barcelona 2024 – RAN Highlights ([link](#)) – LinkedIn post by Stefan Pongratz [here](#) with some discussions.
- SDxCentral: 5G and AI are hot topics at MWC Barcelona ([link](#))
- Telecoms.com: MWC 2024 - Groundhog Day ([link](#))
- MWL Daily Highlights - video ([day 1](#), [day 2](#), [day 3](#), [wrap-up](#))
- The Slice from Telecom TV – video ([day 1](#), [day 2](#), [day 3](#), [day 4](#))
- Fierce Wireless Daily Wrap-up Videos ([day 1](#), [day 2](#), [day 3](#))
- Counterpoint Research MWC 2024 Summary ([day 1](#), [day 2](#), [day 3](#))
- Radio Free Mobile MWC 2024 Summary ([day 1](#), [day 2](#), [day 3](#))
- CCS Insights Blog MWC 2024 Highlights ([day 0](#), [day 1](#), [day 2](#))
- Developing Telecoms – MWC24: Key takes from our editorial team ([link](#))
- CNET - Best of MWC 2024: AI, Wearables and Bending Phone Concepts That Amaze ([link](#))
- Digital Trends: MWC 2024 was weird, and I couldn't be happier about it ([link](#))

🕒 2G/3G

- Vodafone UK successfully switches off 3G across the UK – boosting 4G and 5G ([link](#))
- BT/EE: Closing the curtain on 3G ([link](#))

🕒 4G/LTE

- Alok Tripathi on LinkedIn: Learnings - ["application and execution of an incorrect process used"] - from AT&T #network outage ([link](#))

🕒 5G

- GSMA Foundry Mobile Innovation Report 2024 ([link](#))

- Operator Watch Blog: Kosovo Getting Ready to Launch 5G Mid-2024 ([link](#))
- Total Telecom: 5.5G is entering commercial use in 2024 ([link](#))

🕒 6G

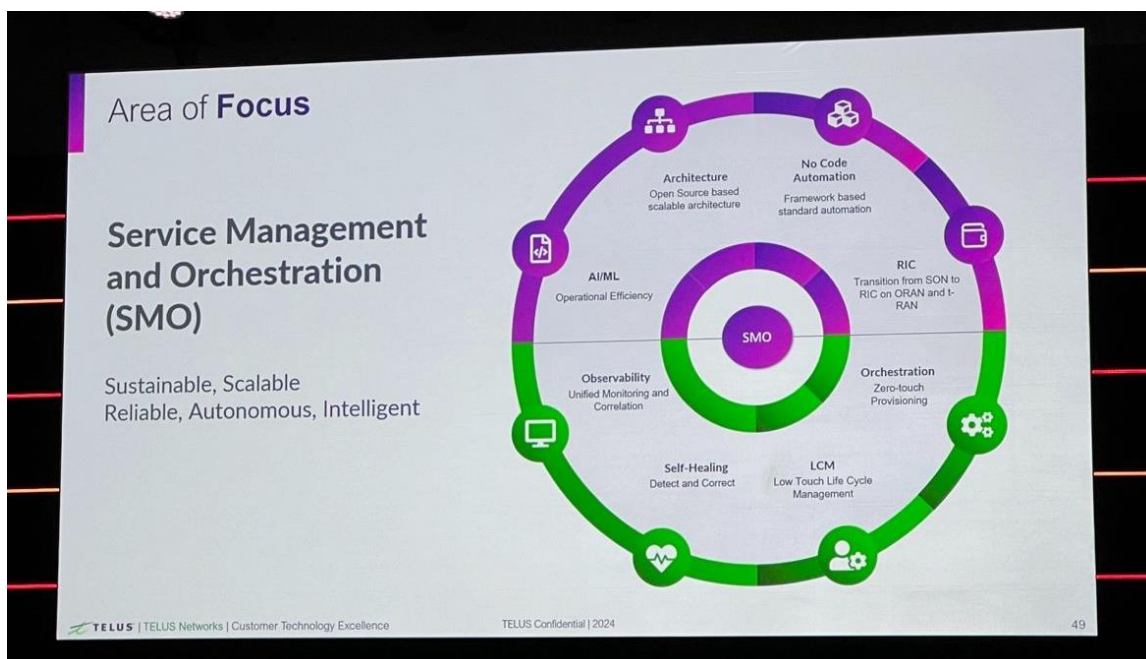
- Free 6G Training: 6G News and Announcements from MWC 2024 ([link](#))



- Light Reading: US and allies agree to 'work together' on 6G standard ([link](#))
- New Electronics: 6G heads toward the light ([link](#))
- IDTechEx - Road to 6G: The Emerging Low-Loss Materials Enabling Future Telecoms ([link](#))
- 6G World: Netherlands in 6G Mode with New Initiative Taking Off ([link](#))

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

- Linda Ligios on LinkedIn: Interesting presentation from TELUS at MWC Barcelona with SMO promising zero touch management and orchestration of disaggregated Open RAN functions ([link](#))



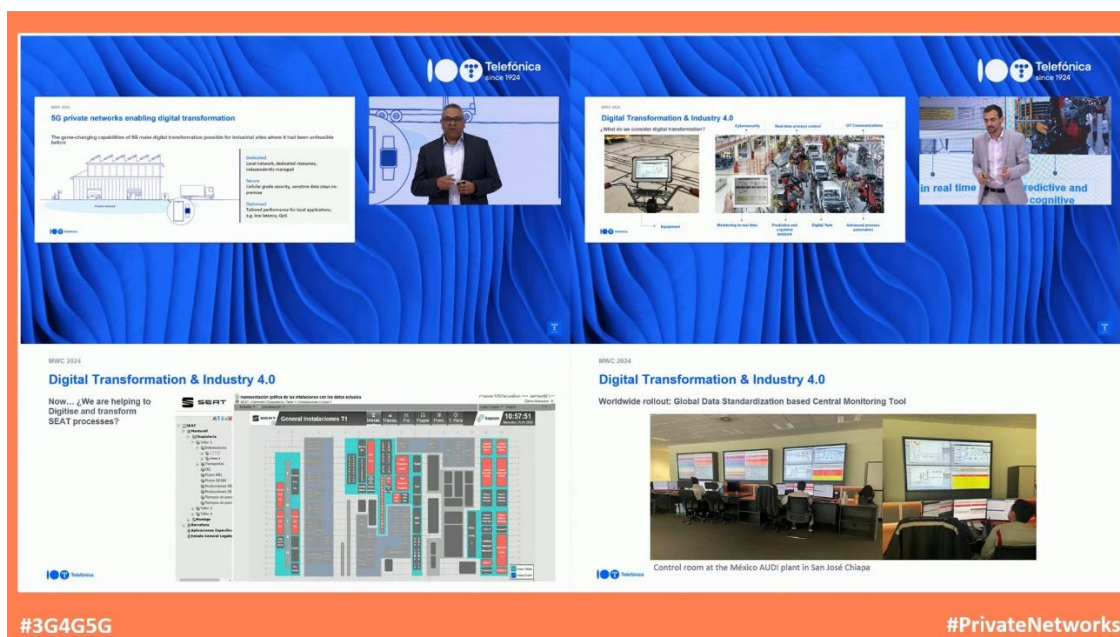
- AT&T Blog: Our Network is Open (RAN) for Business ([link](#))
- TMN: Nokia, still hurtin', goes on O-RAN attack prior to MWC24 ([link](#))
- DOCOMO to Conduct Open RAN Field Trials with Ooredoo, Smart and StarHub ([link](#))
- Jinsung (Alex) Choi on LinkedIn - Accelerator Adaptation Layer in O-RAN ALLIANCE: Benefits and Challenges ([link](#))
- Light Reading: NTT Docomo and NEC put joint weight behind multivendor open RAN ([link](#))
- John Baker on LinkedIn: Open RAN ecosystem (v19) after #MWC24 ([link](#))
- UK DSIT Selects Rakuten Symphony Open RAN Solutions for UK Telecoms Lab Deployment ([link](#))
- Jinsung (Alex) Choi on LinkedIn - Chain-of-Actions: Revolutionizing O-RAN RIC Apps Development ([link](#))
- Rakuten Mobile, Rakuten Symphony Demonstrate 25% Energy Savings Through AI Model on RAN Intelligent Controller ([link](#))
- RCR Wireless: Saudi carriers boost O-RAN adoption with new agreements ([link](#))

📡 Spectrum

- Hong Kong: Arrangements for assignment of spectrum in 6/7 GHz band and related spectrum utilisation fee ([link](#))

📡 Private Networks

- Private Networks Technology Blog: Industry 4.0 – Digital Transformation Enabled by Private Networks ([link](#))



📡 Telecoms Infrastructure, Small Cells, Antennas & others

- European Commission: White Paper - How to master Europe's digital infrastructure needs? ([link](#))
- Paul Rhodes on LinkedIn - Thursday School : Take Me Higher! ([link](#))

📡 IoT / M2M / Smart Homes

- Arthur D. Little - OEMs: Time for a connectivity management sourcing strategy refresh? ([link](#))

Virtualization, Cloud & Edge

- Jinsung (Alex) Choi on LinkedIn: Telco Edge DataCenter Networking for GenAI/LLMs ([link](#))
- Jinsung (Alex) Choi on LinkedIn: AI Area Networking for Enterprise AI Data Center ([link](#))

Security & Privacy

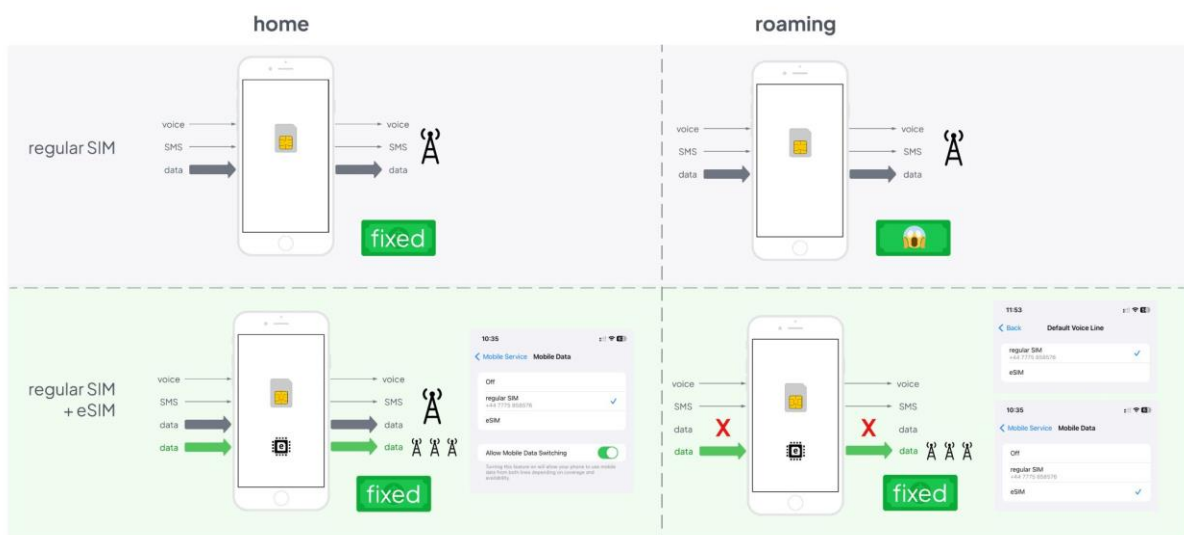
- Roberta Faux on LinkedIn - Cybersecurity: The Unsung Hero of Solar Energy's Bright Future ([link](#))
- Ericsson Blog - Security for 5G Service-Based Architecture: key updates since Release 16 ([link](#))

Connected And Autonomous Vehicles (CAVs)

- Verizon and KDDI partner to connect high-tech AFEELA electric vehicle from Sony Honda Mobility ([link](#))
- Bloomberg: Apple to Wind Down Electric Car Effort After Decadelong Odyssey ([link](#))

Smartphones, Devices, Wearables & Gadgets

- Stuart Mitchell on LinkedIn: Do you realise how smart your handset is? ([link](#))



- MWL: Xiaomi continues to sharpen camera focus ([link](#))
- MWL: ZTE unveils AI-powered 5G 3D tablet ([link](#))

AI, ML & Automation

- MWC: Industry Leaders in AI and Wireless Form AI-RAN Alliance ([link](#))
- TelecomTV - MWC24: The analyst takeaways on AI ([link](#))
- Eugina Jordan in The Fast Mode: AI Impact on Wireless Networks and Wireless Consumers ([link](#))
- Jinsung (Alex) Choi on LinkedIn - From Concept to Reality: The Emergence of AI-Native Neural Receivers in Future RAN ([link](#))
- MWL: Operators look to bold, AI-fuelled future ([link](#))
- Eugina Jordan in The Fast Mode: Role of RAN Openness in AI Implementations ([link](#))

- Jinsung (Alex) Choi on LinkedIn - Three Laws of AI's Frontier: Scaling, Learning, and Moore's Unyielding Law ([link](#))
- Light Reading: The questionable economics of AI in the RAN ([link](#))
- Jinsung (Alex) Choi on LinkedIn - The AI Paradigm Shift: Redefining Interaction on Mobile Computing Platforms ([link](#))
- Eugina Jordan in The Fast Mode: AI Implementation in Transport for Wireless Networks ([link](#))
- Jinsung (Alex) Choi on LinkedIn: 'AI Action as Code (AAaC)' for Network Management Automation ([link](#))
- Light Reading: India adopts \$1.25B initiative to boost AI capabilities ([link](#))
- Jinsung (Alex) Choi on LinkedIn: How GenAI & LLMs Are Building the Autonomous Networks of Tomorrow ([link](#))
- Jinsung (Alex) Choi on LinkedIn - Harmonizing AI: The Dual Strengths of Traditional ML and Generative AI in Telecom ([link](#))

🕒 Satellites, HAPS, Drones, UAVs & Space

- Megaconstellations on Twitter: "It's confirmed: Starlink are running their D2D tests from an altitude $\frac{1}{3}$ lower (360km vs. 540km) than applied for with the FCC (https://licensing.fcc.gov/cgi-bin/ws.exe/prod/ib/forms/reports/swr031b.hts?q_set=V_SITE_ANTENNA_FREQ.file_numberC/File+Number/%3D/SATMOD2023020700022&prepare=&column=V_SITE_ANTENNA_FREQ.file_numberC/File+Number). How will orbital raising affect performance? And what's the uplink throughput now?" (Quote [Tweet](#) with Image)
- Developing Telecoms: Inmarsat and Aramco to trial 5G over water in Arabian Gulf ([link](#))
- DroidLife: Satellite SOS Feature for Pixel Phones Spotted ([link](#))
- RCR Wireless: At MWC Barcelona, eyes on 5G NTN ([link](#))
- Tim Belfall on LinkedIn: "#Starlink is constantly tweaking their end to end service elements resulting in a cumulative 30% drop in latency from 48.5ms to 33ms, with an ambition to get to a median 20ms..." ([link](#))

🌱 Sustainability

- Light Reading: Nokia accelerates net zero emissions goal to 2040 ([link](#))

📰 Other News and Technology Stuff

- ITU DataHub: The world's richest source of ICT statistics and regulatory information ([link](#))
- Telecom TV - MWC24: The rise of network APIs ([link](#))
- Alok Tripathi on LinkedIn: Appledore Research brilliantly summarizes Rahul Atri's prescient vision of Telco's Operational Transformation. ([link](#))
- Jinsung (Alex) Choi on LinkedIn: DevOps + AIOps → GenOps ([link](#))
- Luke Kehoe on LinkedIn: "The collapse of mobile data traffic growth in Ireland is a potent simulacrum of the market's challenging operating conditions in a quarter that has seen restructuring efforts accelerate in the form of mass lay-offs (Three Ireland) and sell-offs (Cellnex Ireland)..." ([link](#))
- TechExplorist: Recyclable 'water batteries' that won't catch fire or explode ([link](#))

📸 **Picture of the week:** Today I am sharing a picture of Enplas Lens antenna from MWC 2024, which is a unique approach for deploying mmWave antennas in a phone. Official website is [here](#) and you can read more about the antenna in this IEEE paper [here](#).

Enplas Lens Antenna

Small Lens Antenna for mm-wave radar(60~79GHz) :

Part No.	Frequency band(GHz)	Diameter(mm)	height(mm)	Gain(dBi)
401-01	60~79	20	9	19

Existing lens

401-01

Existing lens Enplas lens

Above measurement results are internal value, not a guarantee value
Measurement value could be changed by condition



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](#).