

5G NEWSLETTER

Monthly update about global developments in 5G technology (16 Aug'22 - 15 Sep'22)

National Governments' Announcements

Tanzania

Tanzania gets its first 5G connectivity deployed by Vodacom Tanzania, as part of acceleration of nation's digital journey, with set up of 200+ 5G sites across various regions

US

US plans to elevate government's communication and security by enhancing the development of 5G technology, with a \$12 MN investment in the "Track G: Securely Operating Through 5G Infrastructure" project operated by National Science Foundation (NSF)

South Korea

Government chooses Samsung Electronics to supply various private 5G network systems to five South Korean government agencies and private institutions to enhance country's private 5G network

India

Government revised the Indian Telegraph Right of Way (RoW) Rules, 2016, to accelerate the deployment of small cells for 5G connectivity, that allows telecoms to deploy 5G network using street infrastructure at nominal costs

Pakistan

Government intends to distribute 700 MHz band spectrum for adoption and promotion of 5G services in the country

Telcos' Futuristic Initiatives

verizon

Verizon plans to install more than 20,000 vRAN cell sites by end of 2025 across US, starting with deploying 100 megahertz of C-band spectrum in various domestic markets

Reliance
Industries Limited

Reliance Industries Ltd intends to connect 100 million locations in India with 5G network by launching Jio AirFiber, a fixed wireless access (FWA) system that connects to Company's Jio 5G network, providing fiber-like speeds

ERICSSON

Ericsson inaugurated a new triple-band, tri-sector 5G radio in its energy-efficient portfolio of offerings that is capable of performing tasks equal to that of nine radios alone, and curbing up to 40% energy consumption

Spark

Spark New Zealand pilots country's first standalone 5G network by partnering with cloud solution providers Mavenir and AWS, and technology partners Nokia and OPPO, to offer low-latency access to edge compute solutions

Key News

08 SEPTEMBER 2022: TECHNOLOGY

Orange has partnered with Mavenir and NEC Corp. to establish and enhance Open RAN-powered 5G connectivity across its cloud infrastructure in France

- In a significant development towards Open RAN 5G deployments in France by Orange, the French telecom MNC has partnered with Mavenir, a telecom software company, and NEC Corporation, an IT and electronics MNC, to establish massive MIMO (mMIMO) on Orange's 5G standalone (SA) experimental network
- The step has been taken to offer high capacity and enhanced coverage of the 5G network, where Mavenir's cloud-native Open vRAN software along with NEC's 32T32R mMIMO active antenna unit (AAU) will be deployed across Orange's cloud infrastructure
- The new deployment will also expand and enhance the French carrier's cloud-based and fully automated 5G standalone experimental network under its project named Pikeo

01 SEPTEMBER 2022: TECHNOLOGY

Telstra and Ericsson have launched a new collection of fully automated and instrumented 5G SA network services for commercial enterprises

- Telstra Corporation Limited, an Australian telecommunications company, and Ericsson, a Swedish multinational networking and telecommunications company, have joined hands to introduce a fully automated 5G SA network slicing suite, using Ericsson's Cradlepoint
- The solution suite is world's first automated standards-based network slicing service orchestration capability in the commercial network, that operates on Ericsson's Orchestration and Inventory
- Under the partnership, Cradlepoint has supplied its 5G enabled routers and adaptors to enterprises, for implementation of the new solution, that are powered by Cradlepoint Netcloud

01 SEPTEMBER 2022: MEDIA, TELECOM

Malaysia becomes first country in Asia to deploy Ericsson's energy efficient ultra-lightweight radio for 5G rollout

- Digital Nasional Bhd (DNB), Malaysia's single wholesale 5G network operator, plans to install Ericsson's AIR 3268 ultra-lightweight radio for its 5G rollout in Malaysia, making it the first country in Asia to deploy an ultra-lightweight radio
- The new generation radio introduced by Ericsson comes with 200W of output power and 32 transceivers, and is 18% energy efficient than its previous version, helping the country to secure a more sustainable and responsible rollout of 5G network in the country
- The model is designed with Ericsson Silicon, enabling real-time channel estimation, and has about 40% less weight than the earlier version, making it more easily installable on towers, rooftops, poles and walls

28 AUGUST 2022: REAL ESTATE

Jamestown has built strategic partnership with 5G LLC to implement 5G connectivity at rooftop areas of its assets and buildings in US

- Jamestown LP, a real estate investment and management company based in US, has partnered with 5G LLC, an aggregator of real estate for the delivery and implementation of telecom technology solutions, to support 5G deployment and connectivity
- Under the partnership, 5G LLC will be responsible for marketing rooftop spaces as prospective sites for 5G transmitters and boosters across Jamestown's portfolio of commercial real estate assets in US
- The agreement also involves negotiation of leases with key wireless carriers, and management of the sites, some of which include Ponce City Market in Atlanta, Ballston Exchange in Arlington, and Levi's Plaza in San Francisco

24 AUGUST 2022: LOGISTICS

Teltech Group chooses Betacom and Airspan Networks to deploy private 5G networks at its warehouses in US to enhance logistics services

- Airspan Networks, an American telecom provider, and Betacom, a telecommunications construction company have joined hands to set up private 4G/5G network for Teltech Group, a 3PL Forward & Reverse Logistics/Warehousing company, at its local warehouses
- The deployments will include establishment of a cellular infrastructure including stand-up robots, drones, and automated forklifts and will use 3.55-3.7 GHz CBRS band with initial focus on LTE (4G) and later expansion to 5G
- The companies intend to enhance the warehouses' scanning capabilities and improve material receiving, order fulfillment, and shipping, while also overcoming the digital gap for the regional tribal nations

23 AUGUST 2022: MARINE

Santos Port of Brazil plans to establish its own private 5G network in partnership with three telecom consultancies, without mobile carriers intervention

- Latin America's largest port in Brazil's São Paulo state - the Santos port - operated by Santos Port Authority (SPA) of Brazil plans to establish its own private 5G network next year facilitated by Anatel, the telecom regulator of Brazil
- The authority is partnering with three telecom-focused consultancy firms - CelPlan Brazil, Lynce Consultoria and Brain Innovation - to establish the network
- SPA has obtained the limited private service (SLP) license from Anatel to allow the three partners to use radio spectrum and directly set up and manage the cellular network, without the telecom providers' intervention

22 AUGUST 2022: TELECOM

Nokia and Safaricom have established Africa's first successful FWA 5G slicing trial that supports LTE, 5G NSA and 5G SA technologies

- Nokia, a Finnish telecom MNC has collaborated with Safaricom, the Kenyan mobile network operator for conduct of Africa's first Fixed Wireless Access 5G slicing trial, using a multi-vendor network environment
- The 5G network slicing is an arrangement that allows multiple networks to establish on common physical network infrastructures, encompassing RAN, transport and core
- The FWA 5G slicing trial will run on Nokia's AirScale 4G/5G base stations, the NetAct network management and assurance system, and the FastMile 4G/5G CPE, while supporting LTE, 5G NSA and 5G SA technologies

18 AUGUST 2022: SPORTS

T-Mobile has established 5G network at the New York baseball stadium to enhance the in-Stadium experience for fans

- T-Mobile, the mobile telecom company, has been selected to establish 5G network, at the Yankee Stadium located in the Bronx in New York City, with average speeds up to 10 times faster than before
- The mobile carrier will set up Ultra Capacity 5G in select sections, while also doubling the capacity for LTE in the stadium, and plans to offer even more upgrades in the coming year
- The partnership has been upgraded by The New York Yankees, the American professional baseball team, to add 5G connectivity for fans on their phones, at Yankee Stadium, for enhanced experience