# 5G NEWSLETTER

## *Monthly update about global developments in 5G technology (16 Mar-15 Apr 2022)*

## National Governments' Announcements

### India
In the view of upcoming 5G rollout in 2022, the government is planning to mandate the installation of telecom infrastructure inside housing projects and premises

### Japan
Government plans to cover 95% of the country's population with 5G capabilities by March 2024, by assigning additional 5G frequencies to local carriers to enhance coverage

### Germany
To boost fiber and 5G deployments, Federal Ministry for Digital Affairs and Transport (BMDV) released the "Gigabit Strategy" aimed to increase acceptance of new construction techniques such as micro trenching

### UK
With the aim of making UK a telco leader in 5G era, government has set up new initiative through govt-backed UKTIN to access funding and resources for creating innovative products and services

### France
With the aim of expediating the roll out of industrial 5G use cases, the French government announced new measures aimed at fostering access to 5G for manufacturers and vertical sectors in the country

## Telcos' Futuristic Initiatives

### airtel
Conducted India's first Open Radio Access Network (Open RAN) based live 5G network validation in partnership with Mavenir

### etisalat
Signed up Nokia to deploy private 5G networks across Abu Dhabi to support digital transformation

### verizon
Certified Cradlepoint W1850 5G Wideband adapter to offer C-band spectrum connection across its 5G Ultra Wideband (UWB) network

### Virgin media
O2 chose VMware to help advance its network and enable its 5G rollout across UK and EU by leveraging VMware Telco Cloud Infrastructure

## Key News

### 13 APRIL 2022: INFORMATION TECHNOLOGY

**The Linux Foundation introduced a new open source project with Google Cloud to automate 5G**

- The Linux Foundation, a non-profit technology consortium, announced the establishment of project Nephio in partnership with Google Cloud and other leaders across the telecom industry
- The new project brings Cloud, Telecom and Network functions providers together in a Kubernetes world to enable and simplify cloud-native automation of 5G telecom network functions
- Nephio, launched with support from more than a dozen players, including operators like Airtel, Bell Canada, Orange, Rakuten Mobile, etc., takes Kubernetes' cloud-native orchestration proficiency to allow telecom operators to roll out and run new services in their 5G and edge deployments

### 13 APRIL 2022: MASS MEDIA, TELECOMMUNICATIONS

**Virgin Media O2 heads field trials for 4G and 5G sites in the UK with the help of Samsung Electronics**

- Moving along the next phase of collaboration, Samsung Electronics, and Virgin Media O2 have concluded the successful rollout of various live 4G and 5G sites in the UK
- What are known to be Virgin Media O2's first 5G test sites with Samsung, they demonstrate interworking between Virgin Media O2's 2G/3G/4G networks and Samsung's latest 4G and 5G solutions
- Under the collab, Samsung provided a variety of network solutions for the tests, including its 4G radios, 4G/5G baseband units, and 5G Massive MIMO radios, making headway in helping operators around the globe adopt 5G services

### 11 APRIL 2022: POWER

**With the support of Optus, AWS, and Unleash live, Endeavour Energy has deployed the first set of 5G and AI-enabled drones to get rid of manual identification and remediation of power grids in Sydney**

- Endeavour Energy, operator of the electrical distribution network, together with telecom and tech participants Optus, Amazon Web Services, and Unleash Life, has set up its first 5G and AI-enabled drones for electricity grid repair in Sydney, Australia
- The use of drones could replace the need for the Company to use fleets of vehicles, helicopters, and technicians to manually identify and undergo restoration tasks
- Drones are also expected to enable and improve restoration times for unplanned electricity outages, particularly during natural disasters such as storms, floods, and bushfires

### 06 APRIL 2022: DEFENSE

**AT&T has collaborated with Northrop Grumman to facilitate US DoD with IoT and 5G power**

- AT&T, the world's largest telecom company, and Northrop Grumman, an American aerospace and defense technology company have to collaboratively deliver an open-architecture solution to the US Department of Defense (DoD) to power IoT and 5G capabilities
- The new solution is part of the DoD's Joint All-Domain Command and Control (JADC2) Implementation Plan set up to help it interconnect distributed sensors, shooters and data from all domains, terrains and forces
- Northrop Grumman expects to be prototyping technology with AT&T within a year to offer DoD high speed, low latency connectivity across multiple terrains and domains to connect warfighters to systems, data and shooters

### 26 MARCH 2022: SPORTS

**Malaysia's MoF 2022 E-Sports Carnival becomes the first-in-country e-sports contest to deploy 5G connectivity**

- To support the use of 5G technology, Malaysia's Finance Ministry's (MoF) 2022 E-Sports Carnival with ~300 participants has become the first e-sports competition in the country to adopt 5G technology
- The step has been taken to help the country grow in the field of the digital economy, while by 2024 the penetration rate of 5G in the country is expected to reach 80% of populated areas
- The competition is part of strategic integration between MoF and agencies of government-linked companies, as well as players from the private sector, and has participants from the Welfare and Sports Council of Members of the Ministry of Finance (MKSAKK)

### 24 MARCH 2022: MARINE

**Vodafone and Nokia collaborate to install the world's first marine testbed in Plymouth Sound, the deep inlet in the English Channel in the city of Plymouth, England**

- In a new 5G initiative, Vodafone and Nokia have come together to set up private LTE and 5G networks to support the world's first marine-tech 5G testbed in the UK port city of Plymouth
- The testbed is built as the first marine park in the UK to be used to connect various IoT sensors, marine vessels, and research equipment to enhance advancement in the marine sectors
- The newly deployed network will be freely accessible to businesses, academics, and government agencies to use for R&D on and under the waters of Plymouth Sound along the Devon Coast

### 21 MARCH 2022: INFORMATION TECHNOLOGY, SMART MANUFACTURING

**NEXCOM and Telco Systems have launched a commercial ready-to-use 5G/IoT network solution for SMEs**

- NEXCOM, a supplier of network appliances, and Telco Systems, a telecom equipment manufacturer, have entered into a partnership to launch a commercial-ready solution based on NEXCOM's DTA 1164W, a 5G-ready desktop uCPE, for SOHOs and mid-range businesses looking to run virtual workloads at the network edge
- The uCPE supports Wi-Fi 5/6, 4G LTE, and high-speed reliable 5G connectivity using the Thales Cinterion® MV31-W IoT modem card
- With complete backing of 5G/IoT connectivity, the solution comes in ready-to-use format to support a wide range of cloud-native deployment

### 17 MARCH 2022: AUTOMOTIVE

**T-Mobile offers postpaid plans for select BMW vehicles, 2022 model and beyond, with unlimited voice, 5G, and Wi-Fi hotspot data**

- T-Mobile introduced a postpaid plan with unlimited voice, 5G, and Wi-Fi hotspot for select 2022 BMW vehicles, whereas many as 10 devices can be connected at the same time, with unlimited 5G hotspot data
- Company's postpaid plan named Magenta Drive for BMW costs $20 per month with autopay, plus taxes and fees, supported on the 2022 and newer BMW iX and x4 models
- Accessible through the My BMW app, BMW vehicles support 5G connectivity for both T-Mobile's lower band n71 (600 MHz) "Extended Range 5G" and mid-band n41 (2.5 GHz) "Ultra Capacity" 5G