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## IT & Telecom Technology Industry News

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With this month's focus on mobility, we combed incoming headlines for top stories about trends, predictions, deployments, developments, and innovations. And we found them, from a new Connectivity-as-a-Service product launch to a just-released ranking of the world's top five smart cities, where ubiquitous connectivity will usher in new possibilities.

The top telecom industry news stories from the month are summarized below. To view all the news as it breaks, check out *Pipeline's* [News Center](#) or [subscribe](#) to receive our telecom industry news summary.



### 5G, mobile, and wireless news

This month's issue is all about mobility—with plenty of industry news to share on connectivity, mobile networks, and more. According to new cross-industry research from [Enea](#), the key 2022 mobile trends include crippling cyberattacks, blinding encryption and new opportunities at the edge. The [Wi-Fi Alliance](#) has weighed in with its trends predictions, including demand from users for more efficient, reliable, and secure connectivity in 2022. This year, nearly 18 billion Wi-Fi devices will be in use, and 6 Ghz regulatory approvals, remote-hybrid work scenarios, and complex connectivity systems in home, enterprise, and Internet of Things environments are only ramping up demand pressure. And, with 5G global connections now exceeding 438 million, 5G networks are well on their way toward becoming the dominant global standard for wireless cellular communications. [5G Americas](#) provided a comprehensive overview of 5G and 4G LTE networks and the connectivity imperative.

Companies are taking strides to enable connectivity wherever we are—and wherever we go. [Quectel](#) launched its Connectivity-as-a-Service to provide connectivity-enabled modules that can be shipped for use anywhere in the world, enabling connectivity purchases that simplify edge-based deployments for smart-anything connections. [Gilat Satellite Networks](#) will deliver connectivity for vessels at sea, primarily broadband communication for commercial fishing and maritime transport market segments. [Gilat](#) will also work with one of the world's largest MNOs to deploy 4G cellular backhaul over satellite technology to improve mobile connectivity for millions of subscribers in Asia. In other satellite connectivity news, [OneWeb and Hughes Network Systems](#) will bring LEO satellite broadband services to a broad swath of India. [Senet is partnering with Eutelsat, TrakAssure, and Wyld Networks](#) to bring seamlessly integrated and interoperable terrestrial and satellite LoRaWAN IoT connectivity to customers across the globe.

A new study from [Accenture sponsored by industry association CTIA](#) shows how 5G connectivity will play a significant role in enabling the United States to meet the Biden Administration's climate change goals, with 5G-enabled use cases projected to make up to a 20 percent contribution toward the country's carbon emission reduction targets by 2025. This reduction is the equivalent of removing 72 million passenger vehicles from the road during the same timeframe.

The [GSMA](#) has set out a 5G roadmap for the Middle East and North Africa, showing how robust growth has followed ambitious 5G spectrum assignments, enabling some of the fastest 5G services currently available in the world.

In the United States, planned 5G rollouts caused much hand-wringing over potential consequences for aviation. The aviation sector and officials from the transportation department voiced their concerns over the possible impact of 5G transmissions on radar altimeters, the equipment that uses radio signals to inform pilots of their distance from the ground. As a result, [AT&T and Verizon](#) delayed their rollouts by two weeks. [VIAVI Solutions](#) offered support for verifying the existence of any interference between 5G communications networks and radar altimeters.

In 5G innovation news, [DISH is using Confluent Cloud](#) for cloud-native data streaming with Apache Kafka to deliver a smart network to enable real-time intelligence and agility.

## Network news

In network news, Internet exchange provider [DE-CIX](#) measured a significant increase in traffic in 2021, as we notched another year of living, working, and connecting virtually. A total of more than 38 exabytes of data were exchanged at the global DE-CIX Internet Exchanges in 2021, a 20 percent increase over 2020.

In network innovation news, [Comcast](#) announced the successful test of a prototype 10G modem using core technology that will deliver multigigabit speeds to tens of millions of homes. In the lab test, a Full Duplex DOCSIS 4.0 system-on-chip cable modem built by Broadcom delivered upload

and download speeds faster than 4 gigabits per second powered by 10G network technology. [Nokia and GlobalConnect](#) successfully completed a network trial demonstrating 600G transmission over a live long-haul network link of GlobalConnect Group's GO-COLOR network.

In the United States, the [Federal Communications Commission](#) adopted an Order ending the ability of China Unicom to provide domestic interstate and international telecommunications services within the country. In other [FCC](#) news, the agency proposed new rules that would require broadband providers to display easy-to-understand labels to allow consumers to comparison shop for broadband services.

## Innovation news

[Juniper Research](#) has published its smart city rankings as part of its ongoing analysis of smart city innovation. Shanghai nabbed the top slot, with Seoul, Barcelona, Beijing, and New York rounding out the top five. Rankings were based on an evaluation of many different aspects of smart cities, covering transportation and infrastructure, energy and lighting, city management and technology, and urban connectivity.

Speaking of smart things, [Electric Sheep Robotics](#) has launched Dexter, the robot that transforms commercial gas and electric lawnmowers into autonomous vehicles. Dexter is designed to address critical labor shortages in the landscaping, facilities, and property management industries—and handle management of what's considered the United States' biggest crop. Sewer inspection has also gone high tech as [Deutsche Telekom and Kummert](#) team up with state-of-the-art cameras and connectivity to provide data on invisible infrastructure for maintenance, water conservation, and environmental protection.

Progress toward an electric-car future continues. According to [ABI Research](#), electric vehicle sales will move from seven percent of total new vehicle shipments in 2021 to 19 percent in 2027, thanks in part to improved battery range, support for DC fast charging, and higher charging power that make ownership more appealing.

Deloitte unveiled its new [Unlimited Reality](#), a set of offerings to give business leaders the tools and technologies for virtual worlds and virtual economies. Unlimited Reality includes a studio and innovation space for simulation.

Is the age of the robotic chatbot coming to a close? Survey says: yes. Consumers aren't sold on their efficacy, and many find chatbot experiences flat-out frustrating, according to new [research by Verint](#).

Leaderboard partnership news included the announcement of [Optiva's new multi-year strategic partnership with Google Cloud](#) to help telecom operators and service providers accelerate their digital transformations and journey to the cloud, private and public, and deployment on the edge. As a next step in their collaboration, [FedEx and Microsoft](#) will bring together FedEx network

intelligence with capabilities from Microsoft Dynamics 365 to introduce a cross-platform 'logistics as a service' for retailers, merchants and brands.

## IoT news

New Internet of Things research made headlines. [Frost & Sullivan's](#) recent analysis finds that Internet of Things adoption is growing in India, driven by pandemic-triggered changes in enterprise behavior and an increasing focus on automation. The Indian IoT market is expected to reach \$9.28 billion by 2025 from \$4.98 billion in 2020. [ABI Research](#) has been tracking IoT cellular module vendors across the globe as 5G ramps up; its analysis indicates that with current limits to 5G applicability, 4G remains the current technology of choice for mid-to-long term future-proofing of IoT devices. [ABI](#) also forecasts red-hot growth in China's Wi-Fi IoT market, with a predicted jump to nearly a billion connected devices by 2026 and a CAGR of 29 percent.

Amid this news, [Verizon Business and Atos](#) forged a new, industry-leading partnership to power intelligent IoT solutions with private 5G multi-access edge computing for businesses, governments, and communities worldwide, enabling them to leverage predictive analytics, improve efficiency, and boost revenue.

## Cybersecurity news

Research exposed the ongoing struggle to protect data from mounting cybersecurity threats. [Fortinet's Global State of Zero Trust Report](#) revealed widespread difficulty in consistently authenticating users and devices: more than half of organizations cannot translate this vision into the solutions they are implementing because they lack some basic core fundamentals of zero trust. According to [SolarWinds](#), for the first time in five years, external threats overshadow internal threats as the greatest cybersecurity concern for the public sector. And [Check Point Research](#) published its latest Global Threat Index, which tracks the most-wanted malware (Apache Log4j, Trickbot, and Emotet) and reveals that the education and research industry remains the most-attacked sector worldwide. Finally, [IDC's Future Enterprise Resiliency and Spending \(FERS\) Survey](#) shows cybersecurity is the top investment priority for the future of industry ecosystems—not surprising, given the evolving threat landscape.

## AI and analytics news

Innovation dominated AI news this month. [Lockheed Martin, Amazon and Cisco](#) have teamed up to integrate unique human-machine interface technologies into NASA's Orion spacecraft, providing an opportunity to learn how future astronauts could benefit from far-field voice technology, AI and tablet-based video collaboration. [Anyword](#), a data-driven AI copywriting platform, announced progress toward a new era of conversational artificial intelligence to create truly natural, human-like interactions between users and computers. Conversational AI recognizes a user's written or spoken words, predicts the user's intent, and adapts and responds

as a human would. [Veeva and CONXAI Technologies](#) launched a partnership to use intelligent, real-time, AI-powered services to make construction industry worksites safer, more efficient, and manageable via AI capabilities made possible without writing a single line of code.

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