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Technology Industry News

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An AI-powered parking space finder. Voice-powered car commands. A 10-year path to more energy-efficient and greener networks. Universal cellular coverage, from even the most remote places on the globe. These are some of the top headlines from this month's technology industry news, along with highlights and product unveilings from the 2022 SCTE Cable-Tec Expo.

The top technology 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 news

In 5G news, [American Tower and Verizon Communications](#) have embarked on a new agreement to facilitate ongoing 5G network deployment across the US. In Europe, [Nokia and Telia Finland](#) announced the launch of the world's first commercial 5G standalone network with network slicing for Fixed Wireless Access services.

Ericsson and the Aerial Experimentation and Research Platform for Advanced Wireless, funded by the National Science Foundation and a consortium of industry partners, have announced a collaboration on advancing the [use of 5G for drone operations](#) in support of smart agriculture. The demo included live monitoring of a field of cattle for grazing patterns.

[Alepo](#) released the latest version of its 5G Converged Core solution, with enhancements designed to support advanced 5G use cases in the continued push for innovation.

Optiva is debuting the [Optiva Charging Engine](#), the first 5G telecom charging solution to be transacted through Google Cloud Marketplace, enabling CSPs to rapidly procure the software and connect to other parts of their architecture. Amdocs also unveiled [Amdocs Charging](#), which supports convergent monetization of new services across standalone 5G and beyond. Leading service providers, including two Tier 1 operators in North America, are already using Amdocs Charging.

Network news

Universal coverage from even the most remote locations in the United States? That's the vision for [Coverage Above and Beyond](#), a new plan to bring cell phone connectivity everywhere, announced by T-Mobile CEO and President Mike Sievert and SpaceX Chief Engineer Elon Musk. The plan will leverage Starlink, SpaceX's constellation of satellites in low Earth orbit, and T-Mobile's wireless network—perhaps eliminating our dreaded “dead zones” forever.

Comcast announced at the SCTE Cable-Tec Expo that [Comcast Cable](#) plans to double its network energy efficiency by 2030, cutting the electricity per consumed terabyte of data in half. The company also announced a successful test of the final technical component necessary to deliver multi-gigabit symmetrical speeds powered by 10G and DOCSIS 4.0 throughout the entire [Comcast network](#), enabling the rollout of [multi-gig Internet speeds](#) across the United States, with plans to reach more than 50 million homes and businesses before the end of 2025.

Excited to walk the talk on the cable industry's 10G vision, [Teleste](#) announced successful completion of a 1.8 GHz end-to-end network test at the SCTE Cable-Tec Expo's 10G Showcase.

As end users demand more video and data, requiring more upstream and downstream bandwidth, broadband service providers need innovative ways to leverage the spectrum their wired and wireless networks can support. [Lindsay Broadband's](#) end-to-end solutions for HFC network rebuilds create high performance networks to 1.2 and 1.8 GHz—and were on display at the SCTE Cable-Tec Expo. [UfiSpace](#) also showcased its next-generation OpenXR, OpenZR+ and Pluggable OLT solutions for fixed mobile and broadband networks at the expo. [DriveNets](#) is expanding its network cloud ecosystem with leading ZR/ZR+ optics solutions, unveiled at the expo. DriveNets is the first to plug such high-end transceivers into an open routing platform, breaking a decades-long vendor lock held by router vendors over telecom operators. In Europe, [Nokia](#) announced a rollout agreement with Eurofiber Group to develop superfast, high-capacity fiber optic networks in Europe with the highest service standards possible. In related news, [Keysight Technologies](#) has signed an MoU with IBM to pursue accelerating open radio access network deployments in Europe. In Scotland, [Lothian Broadband chose Adtran](#) to close the fiber gap to deliver voice, video, and Internet service to residential and business customers in underserved areas.

[Omnispace and GateHouse Satcom](#) announced that they have successfully modeled the performance of 5G new radio non-terrestrial network waveform in an NGSO environment.

[ADVA](#) launched its AccessWave25, empowering network operators to easily migrate their 10Gbps access infrastructure to 25Gbps connectivity without a significant increase in footprint or major changes to the existing optical layer.

Innovation news

In innovation news, [Intel Corporation and Broadcom](#) showcased the industry's first cross-vendor Wi-Fi 7 demonstration, with over-the-air speeds greater than five gigabits per second. The trial used an Intel Core processor-based laptop with a Wi-Fi 7 solution connected to a Broadcom Wi-Fi 7 access point.

At the SCTE Cable-Tec Expo, [CableLabs](#) announced the six winners of The 10G Challenge, a unique competition meant to inspire innovators to leverage the emerging 10G broadband network.

Niantic has created [Lightship VPS for Web](#), a tool to enable developers to create immersive augmented reality experiences tied to real-world places—and a step toward advancing the reality of the metaverse.

[ETSI](#) has adopted the first O-RAN specification as ETSI TS 103 859, namely 'O-RAN Fronthaul Control, User and Synchronization Plane Specification v7.02'. The document focuses on Open Fronthaul, one of interfaces in the O-RAN Architecture for open and intelligent radio access networks. In other standards news, [Broadband Forum and HomeGrid Forum](#) have jointly developed a GHNA Certification Program to unlock greater interoperability and gigabit plus performance for service providers.

[Vodafone and Topcon Positioning Group](#) are developing a new mass-market precise positioning system that will locate Internet of Things devices, machinery, and vehicles with a greater degree of accuracy than using only individual global navigation satellites systems (GNSS).

In partnership news, [C3 AI and Google Cloud](#) are expanding their strategic partnership and joint customer pilot programs with Fortune 2000 companies. They will also co-develop new AI-driven applications, using Google Cloud's Vertex AI, ML capabilities, and data analytics services.

In leaderboard news, Cogent Communications announced that it has entered into a definitive agreement to acquire [T-Mobile's Wireline Business](#) to focus on wireless solutions growth.

AI and analytics news

The search for street parking may someday be a thing of the past. Nexar released a video demonstrating the first ever [AI-powered parking space-finder app](#). Demonstrated with Oracle & KDDI's mobile and edge infrastructure, the app reviews dash cam footage to detect on-street free curb space in Tokyo's busy streets using edge compute environments. In related connected car news, Cerence, Inc. introduced [Cerence Exterior Vehicle Communication](#), a new suite of AI and voice-powered innovations that enables drivers to interact with their cars from the outside—enabling new use cases like illuminated door handles, self-closing trunks, and communication

through closed windows. [Promptlink](#) has brought advanced AI to pinpointing DOCSIS network noise by releasing the enhanced, automated version of its AI-based network noise and impairment localization software tool, NoiseHawkAI. [Blaize and Acctonto](#) are partnering to bring edge AI computing to the AI inspection market. The Accton Smart Automated Optical Inspection solution will utilize the Blaize Pathfinder P1600 Embedded System on Module to add visual AI production line inspection for assembly, manufacturing, packaging, and appearance activities.

[NVIDIA and Dell Technologies](#) will deliver a new data center solution designed for the AI era, with AI training, AI interference, data science and zero-trust security capabilities available to enterprises globally.

In other AI news, [Nokia](#) has deployed its Artificial Intelligence Radio Frequency capacity planning software for NTT DOCOMO to help the Japanese operator efficiently roll out its 5G network and to speed up radio frequency planning.

In quantum computing news, [QphoX and IQM Quantum Computers](#) will collaborate to develop a next-generation optical interface for scaling quantum computers. [Quantum Computing Inc.](#) launched a subscription service that provides enterprises with access to its industry-leading Dirac 1 Entropy Quantum Computing (EQC) system. Dirac 1 takes a different computational approach to existing quantum computing providers and can solve business problems with over 5,000 variables.

Security news

As 5G networks and cloud computing become increasingly intertwined, 5G security continues to progress with new technical features to face the expanded attack surfaces from both internal and external threats. [5G Americas'](#) newest paper addresses security threats, vulnerabilities, and mitigations for deployments of 5G cloud infrastructures as new services and use cases are developed.

With hybrid work now the norm, the risk of SaaS misconfiguration poses a serious security threat to businesses. [Palo Alto Networks](#) announced new innovations in Prisma SASE that enable customers to identify and remediate misconfigurations in SaaS apps using SaaS Security Posture Management capabilities.

[Radware](#) released new research in a report, *Application Security in a Multi-Cloud World*, revealing that organizations continue to struggle to achieve consistent, high quality application security across hybrid and multi-cloud environments.

To counter DDoS threats, [Neustar Security Services](#) has expanded its distributed-denial-of-service attack mitigation scrubbing capacity to more than 15 terabits per second across its network. [Neustar and Transaction Network Services](#) have also forged a strategic partnership for trusted call services, to enable enterprises to vet and authenticate calls to consumers nationwide, including both mobile and landlines.

In a filing to the Federal Communications Commission, the [National Spectrum Management Association \(NSMA\)](#) expressed public safety concerns about an imminent regulatory change opening the 6 Ghz band that could wreak havoc on police and fire departments, ambulance services, pipelines, electric and water utilities, and railroads.

In software supply chain security news, [Sonatype](#) has found a massive increase in cyberattacks aimed at open source project ecosystems—an average 700 percent jump in repository attacks over the last three years. [Aqua Security](#) unveiled a new solution for protection across the entire software development lifecycle to help organizations prevent and stop supply chain attacks on cloud native applications.

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