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IT & Telecom Technology Industry News

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Coming off Cybersecurity Awareness Month and heading into our Security and Assurance issue, we've been focused on top cybersecurity news this month. 5G news, especially regarding breakthroughs and trends research, also figured heavily in our roundup. Finally, we look at headlines in innovation and the movers and shakers shaping telecoms and enterprise IT in 2022.

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.



Security and Assurance News

Industry research made headlines this month as we take stock of where we are in a dynamic market with rapidly evolving security threats. Business and public sector organizations continue to face exponential growth in the volume and complexity of cyberattacks, with [new research from BT](#) identifying a more than 50 percent increase in malware traffic over the last six months. While contending with a global shortage of skilled security professionals, organizations are struggling to maintain defenses as cyber threats rapidly change. New findings from [Hitachi ID](#) as part of Cybersecurity Awareness Month have revealed that just 16 percent of organizations have evolved to a zero trust security strategy using fully integrated identity and access management tools. [Check Point Research](#) is tracking a 40 percent increase weekly on cyberattacks on organizations in 2021, compared to the same period a year ago. In September 2021, the average weekly number of attacks on each organization globally reached its peak with over 870 attacks. This is more than double the number of attacks in March 2020. This month, HP released its [latest threat insights report](#) with analysis of real-world cybersecurity attacks. The HP Wolf Security

threat research team found evidence that cybercriminals are mobilizing quickly to weaponize new zero-day vulnerabilities.

Considering these mounting pressures, new research from [Kaspersky](#) reveals that 92 percent of managed service providers in North America are currently planning to add new services to their cybersecurity portfolio, with threat intelligence being the top choice.

New security product and service offerings entered the market. [Telefonica Tech and CyberArk](#) are teaming up to deliver an expanded portfolio of SaaS-based cybersecurity solutions that prioritize a security-first approach to protecting against identity-driven risk for B2B customers and operators. [NETSCOUT](#) has launched a new managed service offering that provides 24x7 testing, monitoring, troubleshooting, and reporting for customers' critical IT services and applications. In other IoT security news, [Keysight](#) has delivered a new IoT security assessment software that enables IoT chip and device manufacturers, as well as organizations deploying IoT devices, to perform comprehensive, automated cybersecurity assessments.

In security trend news, the [FIDO Alliance](#) is tracking passwordless authentication as it goes mainstream. FIDO's Online Authentication Barometer will track the uptake of secure authentication technologies among the public. This tool will provide baseline insights into the state of online authentication in 10 countries across the globe, with future releases of the barometer able to compare changes in behaviors and attitudes over time.

5G News

We've officially entered the season when trends-oriented analysis helps us wrap up the year—and there is plenty on the transom about 5G. According to a new [publication by IHS Market](#), 5G is driving a new industrial revolution. This research shows that global 5G industry investment will reach \$4 trillion in 2035, and another \$12 trillion will be invested in related applications driven by 5G.

[Juniper Research](#) reveals that global revenue from 5G services will reach \$73 billion by the end of 2021 and 8.5 of total operator revenues, a growth of 250 percent over 2020. By 2026, Juniper predicts that 5G service revenue will exceed \$600 million globally.

A [new report by Bain](#) finds that over the next five years, 5G will enter the mainstream, gaining popularity through accelerated deployment by telcos, affordable handsets, and other major uses for the technology. According to the analysis, which focuses on how AI can help telcos realize this opportunity, the adoption of 5G is expected to be faster in 2018 to 2025 than the adoption of 4G in the seven years following its market debut in 2009.

Amid these growth assessments is cautionary news. A new [Oracle survey](#) reveals that the vast majority of CSPs planning to launch 5G networks within the year still don't have the technology needed to monetize these offerings. Industries are also examining how 5G wireless cellular connectivity impacts their businesses, with findings in a new [whitepaper from 5G Americas on the benefits and challenges of enterprise 5G adoption](#).

5G advancements provide a link for us between trends research and reality. [Verizon, Samsung and Qualcomm](#) reached upload speeds of 711 Mbps in a lab trial using aggregated bands of mmWave spectrum, in an exploration to push the limits of 5G technology (and make uploading data much, much faster). [Nokia](#) announced a fixed wireless access breakthrough that could push wireless broadband capacity by increases of five to ten times. In other Nokia news, [Nokia and MediaTek](#) have successfully aggregated 5G standalone spectrum, a breakthrough that will enable communication service providers to deliver higher throughputs and better coverage to more customers.

Network Evolution News

Network evolution news bubbled with Wi-Fi 6 headlines this month. Eighty-three percent of service providers, equipment manufacturers, and enterprises worldwide will have deployed Wi-Fi 6/6E or plan to do so before the end of 2022, a key finding from the latest cross-industry survey by the [Wireless Broadband Alliance](#). [ABI Research](#) expects that Wi-Fi 6 will lead the enterprise Wi-Fi market in 2023 as Wi-Fi 6 enterprise access point shipments increase from 4.3 million in 2021 to 13.4 million in 2026, at a CAGR of 25 percent.

New research commissioned by [Quortus](#) reveals that nearly two-thirds of US and European enterprises suffer reduced productivity and efficiency at the hands of weak and unreliable connectivity—highlighting the growing awareness, interest in, and appetite for private networks in enterprise IT.

[Colt Technology Services](#) has launched a new 400GE service across Europe and Asia Pacific, making it the first telco to offer access to the technology in this region.

Together, [Vodafone, Cisco, Nokia, Benu Networks, and Casa Systems](#) have successfully tested a system that will make it quicker and easier to deliver faster fixed broadband services to new and existing customers across Europe.

In another industry first, [Deutsche Telekom and Ericsson](#) have demonstrated a world-first implementation of 5G end-to-end enterprise network slicing combining network exposure capabilities for slice-specific service in video production. This will enable dynamic QoS updates adapted to the performance requirements of the application.

To enable smarter, data-driven networks that can learn and improve, [Ericsson](#) announced the launch of its Network Data Analytics Function solution, which enables service providers to use data generated by the network to flag and fix problems, thus improving service quality.

Transformation, Innovation and Leaderboard News

The Industrial Edge continues to be a hot topic for industrial and manufacturing firms when it comes to understanding the performance of their equipment and production lines overall. In its

latest report, [ABI Research](#) highlights the top vendors working with customers to deliver insights on-premises for data utilization.

[IDC](#) sees 2021 as an accelerated year for multi-access edge cloud investments. As MEC emerges as a viable option for various enterprise verticals, it is becoming a key driver of new revenue streams beyond connectivity and critical for mobile network operators as they attempt to monetize 5G. The report forecasts that increases in telco MEC deployments will triple revenues by 2025.

Of course, a top trend for 2021 (and 2020) is the future of work. Cisco unveiled its first [Global Hybrid Work Index](#) based on millions of aggregated and anonymous customer datapoints. The Index examines how people's habits and technology interactions have permanently reshaped work a year and a half into the COVID-19 pandemic. Findings show hybrid workers expect greater flexibility, accessibility, and security, while businesses grapple with meeting these increased technology demands

Other innovation news includes announcements of transformative product launches and breakthroughs. [AT&T](#) is modernizing businesses' traditional analog phone lines using the cloud, breathing new life into 'plain-old-telephone-service' by pairing the reliability of POTS with the voice quality, security, and lower maintenance costs of digital lines. In related phone news, [Verizon Business and Yealink](#) have debuted the One Talk T67LTE wireless desk phone with embedded 4G/LTE cellular technology to provide next generation workplace mobility. [Ericsson and PowerLight Technologies](#) are collaborating on a proof of concept for the first fully wireless-powered 5G base station to improve deployment of radio access network sites.

IoT News

Aside from the IoT security news mentioned above, new research from [IoT development platform Tuva](#) analyzes how companies across major industries have implemented smartization to cope with the COVID-19 pandemic and names the 60 smartest companies thriving post-pandemic through smart technology adoption.

IoT product and service enhancements are pushing what's possible. [Laird Connectivity](#) has launched a new antenna that is a milestone for IoT applications because it delivers optimized gain where it most needed, just above the horizon, and with solid performance across all frequency bands. Above-horizon gain is important because many IoT applications exist in remote locations and require the optimal gain to be 10 to 20 degrees above the horizon to provide a solid connection with distant cell towers.

Arm unveiled [Arm Total Solutions for IoT](#), which will simplify and modernize software development, resulting in accelerated time to market for developers, OEMs, and service providers at all stages of the IoT value chain. Senet announced enhancements to its [IoT Marketplace](#) that streamline the process of identifying IoT devices that meet the quality standards for commercial operation on LoRaWAN networks. [AT&T](#) is laying the groundwork for a solution to accelerate and streamline massive deployments of Internet of Things devices and

applications globally for enterprise and government customers through pre-paid cellular connectivity. And [Vodafone](#) announced its technology is now being used with sensors to detect landslides along the UK's world heritage coastline, as well as give local farmers more relevant data on cows, soil, and tractors.

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