Technology Industry News

By: Jara Kern

It's been a spooky time of year, not only for ghouls and goblins but also for malware and data breaches. As we wrap the annual observance of Cybersecurity Awareness Month, we now deliver our Security and Assurance issue, with headlines focused on the top trends and new releases to keep our digital assets and virtual lives secure. News this month also focused on 5G rollouts, progress toward 6G, a next-gen network for research science, and much more.

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.

Security and assurance news

In security news, Check Point Software Technologies has introduced a new release of its quantum cybersecurity platform, Check Point Quantum Titan. It leverages artificial intelligence (AI) and deep learning to deliver advanced threat prevention against advanced domain name system exploits (DNS) and phishing, as well as autonomous IoT security. Following its acquisition of Attivo Networks, TELMEX Scitum has added SentinelOne's Singularity Identity Suite to bolster identity thread detection and response (ITDR), a new category of security designed to protect the users and systems that access corporate networks and data.

Black Lotus Labs, the threat intelligence team at Lumen Technologies, has discovered a new, rapidly growing, multipurpose malware written in the Go programming language. Dubbed 'Chaos' by the author, the malware was developed for Windows, Linux, and a wide array of consumer devices, small office/home office (SOHO) routers and enterprise servers. T-Mobile announced the successful completion of trials using its 5G network to remotely connect and

operate Indro Robotics' ground-based industrial inspection robots, testing security and inspection capabilities at electrical substations.

Thales is helping organizations address digital sovereignty requirements across major public clouds including Amazon Web Services, Google Cloud, Microsoft Azure, Oracle Cloud, SAP and Salesforce with its updated CipherTrust Cloud Key Manager's Bring Your Own Key (BYOK) capabilities for enhanced data security and encryption key ownership. In Central Asia, VEON announced new initiatives to boost Uzbekistan as a major IT hub. Working through its Beeline Uzbekistan operating company, VEON will be bringing in leading digital advertising expertise through the opening of a regional hub for AdTech services and expanding its big data analytics and cybersecurity labs in the country.

In assurance news, Infovista and VMware announced a new partnership to bring automated assurance and operations to communications service providers with deployment across any combination of multi-cloud environments.

5G news

In 5G news, Keysight Technologies is accelerating the design process for 5G non-terrestrial networks (NTN) and other wireless systems. Its software empowers radio frequency (RF) system designers to create digital twins of their architectures and transform from a hardware-centric to a simulation-centric design flow.

At the 2022 TISSOT UCI Track World Championships in Paris, Nokia used 5G mmWave and 5G cmWave technologies to showcase how 5G private wireless will enhance the customer stadium and media experience, including through an immersive experience with support for video and data sharing, and improved situational awareness for security and safety teams.

HFCL has launched a 5G Lab-as-a-Service to accelerate rollout of 5G solutions and services. The lab provides an automated test environment for the private sector, academia and government to work together on product innovations from concept to reality.

Network news

Network news included announcements of trials and field tests. Arelion completed the first multi-vendor, multi-layer 400G coherent connections field trial using Acacia Bright 400ZR+ modules and Cisco routers. Spirent Communications and Nokia joined forces to successfully demonstrate 800G interoperability in data center environments to support the massive capacity demands of today—and the future. Nokia also announced the first trial of its 25G PON solution in Asia, with AIS Fibre in Thailand trialing the technology using existing optical line terminals. Airoha Technology announced deployments of the XGS-PON broadband networks that ensure symmetric 8 Gbps upload and download speeds with 3ms low latency. The speed has set a new benchmark for the introduction of 10G-PON technology. Deutsche Telekom achieved an end-to-end data call on converged access, validating in a lab trial the feasibility of converging the fixed network control plane into a 5G Core to steer traffic from a 5G residential gateway. The traffic was then routed along the entire wireline access chain to the core network. Lumen announced it

has closed the sale of its local incumbent carrier operations (ILEC) business in 20 states to [Brightspeed](#), which has now begun operations toward large-scale fiber deployment with a footprint in 20 states.

The 2022 [SCTE Cable-Tec Expo](#), the largest cable event in the Americas, eclipsed attendance records for the last in-person show, held in 2019 in New Orleans. The 2023 show has been set for October 16 to 19, 2023 in Denver, Colorado.

In partnership news, [Megaport and Zenlayer](#) entered into a strategic partnership to expand the global reach of their on-demand private networks to more than 800 locations across six continents to their joint customers. In Germany, [Vodafone Group and Altice](#) have created a joint venture, FibreCo, to deploy fiber-to-the-home to up to seven million homes over the next six years. [Dell Technologies and Fujitsu](#) will collaborate to speed adoption and simplify deployment of open radio access network solutions globally.

AI and analytics news

Red Hat and IBM Research announced [Project Wisdom](#), the first community project to create an intelligent, natural language processing capability for Ansible and the IT automation industry. Using an artificial intelligence (AI) model, the project aims to boost the productivity of IT automation developers and make IT automation more achievable and understandable for diverse IT professionals with varied skills and backgrounds.

[Amazon Web Services and SK Telecom](#) will codevelop a new set of computer vision services intended to make it easier and more cost-effective to build, use, and scale computer vision applications, which enhance productivity, maintain equipment, and improve facility safety.

[Hewlett Packard Enterprise](#) announced that King Abdullah University of Science and Technology selected HPE to build its next-generation supercomputer, Shaheen III, to deliver state-of-the-art supercomputing and artificial intelligence (AI) capabilities for research in a variety of agricultural and environmental fields.

[T-Mobile and Google Cloud](#) announced plans to transform customer experiences for wireless customers everywhere, leveraging Google Cloud's expertise in data analytics, artificial intelligence (AI), and machine learning (ML), and its extensive portfolio of leading 5G and edge computing products and solutions.

Innovation and leaderboard news

In innovation news, [Nokia](#) announced that it will lead the Hexa-X-II project, the second phase of the European 6G flagship initiative. This new phase will expand the Hexa-X partner list to 44 organizations that are tasked with creating the pre-standardized platform and system view that will form the basis for many inputs into future 6G standardization.

[Red Hat and the FIWARE Foundation](#) are teaming up on open-source technology to build an integrated, smart city platform that can enable cities across the world to be more resilient and improve citizens' well-being with data.

The Energy Sciences Network (ESnet) formally unveiled ESnet6, the newest generation of the U.S. Department of Energy's (DOE's) high-performance network dedicated to science. It provides over 46 Tbps of bandwidth and intelligent network services for data-intensive research needs. The network is powered by collaboration between Esnet and Ciena's coherent optical technology.

In other science-related technology innovation news, Alaska Communications is collaborating with Oregon State University's College of Engineering to allow wave activity data to be collected from the ocean floor via the company's subsea fiber optic cable. Monitoring could provide early warning for coastal communities for dangerous sneaker waves and other threats. And, NTT Corporation and the Graduate School of Frontier Sciences, The University of Tokyo (GSFS) have successfully produced the world's first communication signal using a battery and a circuit composed of environmentally friendly materials free of scarce elements and hazardous substances.

IoT news

In IoT news, Cradlepoint, Bosch, and T-Mobile are working together to deliver advanced IoT connectivity solutions using 5G wireless WAN technology. Use cases will include connectivity powering autonomous vehicles, robotics, and AR/VR at the Curiosity Lab at Peachtree Corners, one of the United States' first smart cities.

Nokia is enhancing its industrial portfolio of ruggedized field router and smartphone equipment for use in hazardous, flammable, explosive and dusty environments, specifically to allow oil and gas companies and other industries to maintain vital connectivity of their workforce and machines.

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