San Diego, March 7ʰ 2023

Unveiling the Power of Quantum at OFC 2023: Join ID Quantique's Live Quantum Cryptography Demonstrations

OFC 2023, taking place March 5-9 at the San Diego Convention center is just around the corner, and we are thrilled to announce that ID Quantique (IDQ), global leader in quantum cybersecurity, will showcase two live demonstrations at the event. IDQ experts will be available to discuss how service providers can leverage quantum technologies to protect their networks and ensure trusted communications.

The cyberattack landscape is constantly evolving. With threat actors becoming increasingly persistent and sophisticated, cybersecurity professionals and network operators are challenged to ensure the confidentiality, authenticity and integrity of data moving across both public and private infrastructure.

Zero trust architecture and "secure by design" systems have become watchwords for cybersecurity best practice. The latest generation of quantum-driven technologies is helping to protect the global digital landscape from a broad range of threats, both today and tomorrow.

At IDQ, we have been providing high-performance quantum-safe security solutions for the protection of data in transit for over 20 years. By upgrading existing network encryption products with Quantum Key Distribution (aka quantum cryptography), we ensure that the solutions are quantum-safe, delivering long-term protection of sensitive data into and beyond the quantum era, when quantum computers will render most of today's conventional encryption algorithms vulnerable.

At OFC, we will showcase 2 live demonstrations of our Quantum Key Distributions solutions:

Unconditional security of critical data with 800Gb/s quantum-secured communications demo

In collaboration with Ciena, a global leader in networking systems, services, and software, IDQ will demonstrate how high-capacity quantum-secured optical channels can help network operators detect and defend against eavesdroppers across metro applications, including Data Center Interconnects, defending encrypted data communication from hackers. This demonstration will feature Ciena's Waveserver 5 platform, powered by 800Gb/s optical-layer encryption leveraging open APIs to communicate with ID Quantique's Quantum Key Distribution (QKD) Cerberis XG platform, over an optical fiber link between the IDQ (#6012) and Ciena (#3826) booths.

Large Quantum Key Distribution network management and monitoring demo

Quantum Key Distribution (QKD) technology is composed of fiber optics point-to-point connections that are interconnected in ring, star or mesh configurations via a Quantum Key Management System (KMS) to allow quantum-secured communications over long distances. Deploying such an architecture requires specific tools to simulate, configure and monitor the network. In this demo, located on OFCnet's booth #5917, IDQ, with its unique Central Management Solution, will show it has never been simpler for network operators to deploy QKD topology in their existing telecommunication infrastructure.

For more information about IDQ's participation at OFC 2023 or to request a meeting, visit:

https://www.idquantique.com/ofc-global-conference-7th-9th-march-2023-san-diego/

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> *The joint demonstration organized in collaboration with Ciena provides a practical example of a typical quantum-safe upgraded data communication set up; together with the second demonstration, we aim at showing that becoming quantum resilient has never been as easy as today.*
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> Marc Niklès, Chief Marketing Officer at ID Quantique.

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> *Helping our customers elevate their defenses against growing cyber security threats is an ever-going journey, especially in the quantum era. Ciena has always pushed the boundaries of what's possible with innovative network technology, and we were the first to offer 800Gb/s encryption. We will continue to innovate and collaborate with companies like IDQ to build network solutions that help protect the confidentiality of critical data as it traverses the network.*
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> Patrick Scully, Director, Product Line Management, Ciena.

About ID Quantique

Founded in 2001 as a spin-off of the Group of Applied Physics of the University of Geneva, ID Quantique is the world leader in quantum-safe crypto solutions, designed to protect data for the future. The company provides quantum-safe network encryption, secure quantum key generation and Quantum Key Distribution solutions and services to the financial industry, enterprises and government organizations globally. IDQ's quantum random number generator has been validated according to global standards and independent agencies, and is the reference in highly regulated and mission critical industries – such as security, encryption, critical infrastructure and IoT – where trust is paramount.

Additionally, IDQ is a leading provider of optical instrumentation products, most notably photon counters and related electronics. The company's innovative photonic solutions are used in both commercial and research applications. IDQ's products are used by government, enterprise and academic customers in more than 60 countries and on every continent. IDQ is proud of its independence and neutrality, and believes in establishing long-term and trusted relationships with its customers and partners.

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