



Press Release

Geneva, May 10th 2022

ID Quantique expands the XG Series with the launch of the Clavis XG, IDQ's long distance and backbone Quantum Key Distribution (QKD) solution, the ultimate in quantum-safe security

ID Quantique (IDQ), the world leader in quantum cybersecurity solutions, today launched the Clavis XG at the Inside Quantum Technology conference (IQT). It expands the XG Series with higher key throughput and extended distance range, aiming at providing the highest level of trust to governments and enterprises for future proof data protection. It is also designed as a platform to offer "QKD as a Service" to a wider range of customers.

Traditional security is being challenged every day. Increased geopolitical and commercial pressure, technological advancements and malicious actors are putting our data confidentiality and sovereignty at risk.

Safety of current encryption methods, and especially of the key exchange mechanisms based on asymmetric cryptography, is a major concern today particularly for governments and enterprises which must protect data for five to ten years or more. Possible back-doors in current systems combined with massive computing power already put high-value sensitive data at risk of being decrypted by malevolent actors. Moreover, the arrival of quantum computers is imminent and will render asymmetric key exchanges unsafe: encrypted data can be stored now and easily decrypted later.

For over 15 years now, IDQ has been commercializing Quantum Key Distribution (QKD) that generates and distributes cryptographic keys across a provably secure communication network, to safely encrypt or authenticate data. In contrast to conventional key distribution algorithms, QKD is the only known cryptographic technique which offers forward security, resilient to new attack algorithms and upcoming quantum computers. A significant advantage of QKD technology resides in the fact that its reliability is not impacted by technological advancements nor time.

After launching the first model of the XG Series last year ([Cerberis XG](#)) for standard key rate generation and medium distance interconnection, IDQ is now expanding the range with the [Clavis XG](#), a system designed for production environments that require high key transmission rate or extended range interconnection. With this product, IDQ now offers a full range of solutions for both the metro and backbone. The XG Series supports any kind of network topologies, such as point-to-point, relay, ring, and star networks.



IDQ's Clavis XG at a glance:

- Provably secure key distribution and instantaneous intrusion detection
- For high key rate exchange or extended distance range interconnection
- Smallest foot print - 1U high rack mountable; saving rack space in datacenters
- Broad interoperability with major Ethernet and OTN encryption vendors.
- Easy installation and remote support

The XG Series is designed for reliable uninterrupted and long-term operation by providing high availability services. It is compatible with IDQ's QKD management and monitoring framework, which integrates current Software-Defined Network (SDN) QKD ETSI standards as well as IDQ's Quantum Management System (QNET QMS) to facilitate all large QKD deployments.

It also embeds enhanced trusted security components, such as tamper detection, a secure memory module as well as IDQ's latest QRNG technology ([IDQ20MC1 QRNG chip](#)) which provides proven randomness for all the related crypto storage.



With the introduction of the Clavis XG, we are offering the first comprehensive range of QKD solutions to the market. Based on years of experience in the QKD field, this range is designed for large-scale deployments with a reduced footprint in data centers as well as a lower total cost of ownership for our customers, while preserving ultimate quantum-safe security to protect data today and tomorrow.

Grégoire Ribordy, CEO and co-founder of ID Quantique

ID Quantique's leadership team will present the new Clavis XG at [Inside Quantum Technology](#) (IQT), the premier conference dedicated to quantum enterprise. The conference gets underway today with "20 years in building the Quantum Safe Ecosystem for Enterprise and Critical Infrastructure" – an opening keynote session by Grégoire Ribordy, CEO and founder of ID Quantique, who will address quantum security focusing on Quantum Random Number Generators (QRNG) and Quantum Key Distribution (QKD) with a technology outlook on the next couple of quarters. IDQ's team will also share experience from twenty years of innovation, participating in a number of panels throughout the 3-day conference.

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