



Press Release

Geneva, June 24th 2020

A new version of ID Quantique's QRNG Quantis Appliance is now available

ID Quantique (IDQ), the world leader in Quantum Random Number Generation (QRNG), today announced a new version of its Quantis Appliance which features ID Quantique's latest QRNG technology in a robust chassis to provide true entropy for security and cryptographic applications.

In today's connected world, the generation of unique and truly random numbers plays a critical role in many important applications such as cryptographic services to generate high-quality keys to effectively protect access to private networks, servers, virtual machines, and applications; and to protect data integrity and confidentiality for numerical simulations and fintech. The generation of such random numbers is often overlooked. Being deterministic, computers are not capable of producing random numbers. A physical source of randomness is therefore necessary. Quantum physics being intrinsically random, it is natural to exploit a quantum process for such a source.

We, at ID Quantique, are dedicated to the success of our customers in all areas; we contribute with cutting edge Randomness Quality from financial transactions to highest gaming experience, offering higher flexibility, easier maintenance, better protection against any kind of physical tampering, and higher ROI.

As a hardware source of trust for cloud or distributed environments, the [new Quantis Appliance 2.0](#) distributes true and unpredictable randomness to multiple networking and security applications and systems in parallel, for bullet-proof protection of sensitive data, servers, virtual machines and private networks. It also ensures server random pools always have true entropy and augment the entropy of random number generators in security systems such as AAA servers, central key management servers, PKI servers or any security modules. Other applications include gaming, simulations or modelling.

The new Quantis appliance 2.0 is specifically designed to meet the requirements of high availability environments with a robust FIPS/NEBS compliant chassis, hot-swap redundant power supplies and fans, and Hot Standby feature. It integrates seamlessly in any network through standard REST API. The system architecture has been specifically developed with parallelizable processes that allow to minimize latency and offer the best performance without compromising security even at peak times: it delivers quantum randomness to multiple servers in parallel and can serve 8'000 requests of 256-bit keys per second.

Easy to manage, the Quantis Appliance 2.0 presents a simple CLI for administrator to set SSL certificates, and configure network parameters. It also features a built-in web-based application for displaying system information and performances and retrieve random data files and generate syslog alerts for troubleshooting.

"Servers in datacenters use notoriously bad randomness as they have little access to quality entropy sources apart from disc interrupts and other fluctuations" said Grégoire Ribordy, CEO and co-founder of ID Quantique. "With minimum integration and management resources requirements, this new version of the Quantis Appliance can serve multiple requests in parallel from any application needing true unpredictable randomness. It can greatly improve the authentication and encryption of any data at rest and data in transit at any OSI network layers."

ID Quantique was the first company to develop a quantum random number generator (QRNG) in 2001 and it remains the market leader in terms of reliability and certifications, with its [Quantis QRNG product family](#). It has recently launched the [smallest QRNG](#) of the market, designed and manufactured specifically for mobile handsets. IDQ is actively developing new QRNG products for its customers in various fields like automobile, consumer electronics, computer, mobile, financial, gaming and security markets.

At ID Quantique, we also focus on providing [long-term security solutions](#) for our customers' IT infrastructures. Our [Quantum Key Distribution](#) (QKD) solution is used to distribute encryption keys, whose security is based on quantum physics and is thus guaranteed for the long-term.

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. For more information, please visit www.idquantique.com.

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