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KEYMILE enhances its strategic positioning with quantum cryptography solutions

Hanover, Monat 2015 – KEYMILE is adding quantum-cryptography solutions from ID Quantique, world-wide leader in quantum-safe encryption solutions from Switzerland, to its product range for mission-critical communications networks. This move underscores KEYMILE’s strategic positioning as a leading supplier of highly secure mission-critical systems for local authorities, railway companies and power utilities.

In the framework of a sales-partnership agreement with ID Quantique KEYMILE can offer encryption solutions with immediate effect. This has allowed KEYMILE to expand its product portfolio for communications networks to meet all all core requirements. These requirements include maximum fail-safe operation, robust and secured access- and data-transmission systems, simultaneous operation of TDM- and packet-based services, as well as strong encryption to provide extra security for the data streams. Consequently, KEYMILE is also furthering its strategy of focusing on mission-critical communications networks belonging to local authorities, railway companies, power utilities and operators of oil- and gas-pipelines.

ID Quantique develops sophisticated encryption solutions to ensure secure data networks by using conventional and quantum cryptography. Quantum Key Distribution (QKD), based on quantum physics, is an essential component of the solutions. In contrast to conventional methods for exchanging encryption keys such as public key cryptography, QKD offers maximum protection from attempts to decrypt data in transit using brute force. The reason is that, through the fundamental laws of quantum physics, any attempt to read the key without authorisation will alter it irrevocably. This is a basic principle of quantum physics. As a result, any attempt to spy on the encrypted data is uncovered immediately. KEYMILE offers three ID Quantique products for resale in mission-critical communications networks. The first is the multi-link encryptor Centauris CN8000 which supports encrypted bandwidth of up to 10 x 10 Gbps in layer 2 networks. The second is the sophisticated Ethernet- and Fibre-Channel-Centauris-Link encryptor family. The Centauris products are certified based on the international security standards common criteria EAL4+ and FIPS PUB 140-2 level 3. The third product is the Cerberis QKD server.

In addition to expanding its product portfolio, KEYMILE is setting up a Cyber Security Competence Centre which supports operators of mission-critical communications networks in defining and implementing a cyber-security strategy. In conjunction with certified partners, KEYMILE is offering an in-depth service portfolio that includes advisory, planning, implementation and operational elements, as well as in-depth product and technology training courses.

“The fact that quantum computing will render current cryptographic solutions vulnerable is now widely acknowledged”, says Grégoire Ribordy, CEO of ID Quantique. “By making the move to offer quantum-safe cryptographic solutions, KEYMILE demonstrates its deep understanding of cybersecurity challenges and its commitment to long-term security”.

“ID Quantique’s quantum-cryptography products ideally complement our own mission-critical-systems strategy”, comments Axel Föry, CEO of KEYMILE. “We are now in a position to offer operators of mission-critical communications networks a wide portfolio of solutions and services which they can harness to boost the availability and security of their infrastructure significantly once again”.

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About ID Quantique

ID Quantique (IDQ) is the world leader in quantum-safe crypto solutions designed to protect data for the long-term 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 also commercializes a quantum random number generator, which is the reference in the gaming and lottery industries.

For further information, visit www.idquantique.com

About KEYMILE

KEYMILE is a leading supplier of telecommunications solutions with key facilities in Germany and Switzerland. The flexible and robust multi-service access and transmission systems allow network operators to provide a wide range of voice and data services on copper wire and optical fibre. Simultaneous availability of IP/Ethernet and TDM technology guarantees perfect evolution to packet-based data transmission. KEYMILE systems are used for reliable data transmission in mission-critical areas of telecommunications networks used by railway companies, energy suppliers, oil and gas utilities and public organisations. Public network operators employ the products to provide top bandwidth to subscribers. The KEYMILE systems stand apart for their high level of availability and durability, ease of operation, good eco-footprint and top levels of system integration to German production standards. KEYMILE also supports its customers with a wide range of solution-driven services such as consulting, network design, implementation, network operation and training. The company has subsidiaries and partners worldwide and has installed systems in more than 100 countries.

For further information, [visit www.keymile.com](http://www.keymile.com)

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