



Press Release

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A new 380 km-long intercity QKD infrastructure in Poland

Poznań Supercomputing and Networking Center (PSNC) and ID Quantique (IDQ) collaborate once again to establish a new Quantum Key Distribution (QKD) link between Poznan and Warsaw. This link will provide new services for a number of applications such as telemedicine, medical data transmission, data storage and public services.

This installation is part of the Polish NLPQT – National Laboratory for Photonics and Quantum Technologies – project aiming at developing a country-wide quantum communication infrastructure. This infrastructure will initially enable research and development work on QKD and investigate its integration with other mechanisms currently used to secure data transmitted over IT and telecommunication systems. It will later lead to the design, launch and development of complex and secure systems for real-world applications.

QKD technology is currently being tested and introduced in the best research centers in Europe and in the world. It is already used by leading companies and governments to secure data in motion. Sending QKD keys to third party cryptographic systems is an example of the safest known method of communication. Quantum technology can be used today for securing internet connections, from smartphones and computers to datacenters, and to provide safe services to end-users.

In this installation, IDQ deployed their [Cerberis XG series](#), the fourth generation of QKD systems, on the PIONER – Polish National Research and Education – network operated by the PSNC. The goal of the PSNC is to further integrate its local metro QKD infrastructure, which was developed last year in Poznan, with this new long-distance Poznan-Warsaw QKD link. The final goal is to interconnect all High Performance Computing Centers in Poland and to establish common access layers to QKD services. This will provide access hubs for different use cases and connected applications, such as: telemedicine, medical data transmission, data storage, and public services provided by local administration units. Selected nodes will act also as possible cross-border QKD infrastructure nodes, which will open new possibilities for international QKD infrastructure and services. This pan-European aspect is especially important as PSNC and the PIONIER network are part of the European Research and Education Community.



Launching the QKD link between Poznan and Warsaw is the first stage to building a nationwide quantum communication network, providing access to modern technology to companies and organizations seeking to protect their assets in the post quantum era.

Artur Binczewski, Director of Network Technologies Division at PSNC



This is the first large-scale national deployment in Europe and we feel honored to support Poznań Supercomputing and Networking Center once again to help them offer new secured services to their customers in Poland, with the aim of extending internationally in the near future.

Grégoire Ribordy, CEO and co-founder of ID Quantique

[Read the use case](#)

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.

To learn more, please visit www.idquantique.com.

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