



Press Release

Geneva, September 11th 2019

ID Quantique and dacoso partner to offer quantum-safe data encryption in a highly secure and future-proof way

ID Quantique (IDQ), the world leader in quantum-safe security solutions, partners with dacoso, a renowned IT service provider specialising in highly secure data protection, to provide a future-proof path to Agile and Flexible Security.

dacoso offers solutions for Connectivity, Cyber Defence and Virtual Networking. As an IT service provider, dacoso addresses companies that need their data to be highly available and secure, without sacrificing agility. With the age of quantum computing on the horizon, bringing with it the computational power that will render most of today's encryption algorithms obsolete, it is crucial that organisations equip themselves with the right tools to protect their sensitive data in this new threat landscape. Partnering with ID Quantique will enable customers to increase the dynamic performance of networks and ensure the highest level of security required in the coming quantum era.

"Quantum computing will have a profound impact on modern encryption methods; effectively rendering most of them obsolete. Quantum Key Distribution is an essential technology for data confidentiality and our partnership with ID Quantique ensures that we can provide customers with the best possible cybersecurity." said Thomas Joswig, CEO of dacoso.

dacoso is integrating ID Quantique's Quantum Key Distribution equipment into its current ADVA solution. ID Quantique has developed a solution based on quantum mechanics that can be used to determine whether an unauthorised person is monitoring the key exchange mechanism. In such a case data transmission stops and alarms are raised immediately.

"We are very excited to partner with dacoso at such a crucial time in the cybersecurity market. QKD offers unprecedented security, ensuring that organisations can protect their most important data from harm both now and into the future," comments Grégoire Ribordy, CEO of ID Quantique.

The impact quantum computing will have on traditional encryption methods is clear. While brute force attacks using classical computers can take months to break through security, a quantum computer has the capability to break standard public key cryptography in a much shorter timeframe.

As commercial quantum computers are not yet available in the wider market, organisations may believe that they do not yet pose a risk to their data. In truth, the threat posed by future quantum computers does still affect data today. The 'download now, decrypt later' attack strategy, where cyber criminals steal data and store it for decryption when quantum technologies become widely available, puts all data encrypted with current standards at risk.

The only solution to provide provable forward secrecy if critical data is to implement quantum-safe encryption today. Quantum Key Distribution exploits a fundamental law of quantum physics – observation causes perturbation – to guarantee safe key exchange and preserve data integrity against both classical and quantum attack. Moreover, it ensures that data with a long shelf life is not vulnerable to immediate or future attacks.

About dacoso

dacoso offers solutions for Connectivity, Cyber Defence and Virtual Networking. As an IT service provider we thereby address companies that need their data to be highly available and secure yet without sacrificing agility. Our services comprise, among other, optical data links encrypted to satisfy BSI, a certified Security Operation Center, Managed Security Services and virtualization solutions to increase the dynamic performance of networks.

dacoso GmbH is an owner-managed company headquartered in Langen, Frankfurt a.M., with a further 11 locations in Germany, Austria and Switzerland. Banks and insurers, public utilities, trade and industry, public authorities and IT providers and carriers count among our customers. dacoso and its solutions are ISO 9001 and ISO 27001 certified.

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

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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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