

Move securely within the cyberworld
itrust consulting s.à r.l.

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itrust consulting participates in QUARTZ on satellite-based key distribution

itrust consulting s.à r.l. is proud to announce that it has recently signed a contract with SES to participate as one of the many project partners in the recently publicized QUARTZ consortium (<https://www.ses.com/press-release/esa-and-ses-led-consortium-develop-satellite-based-cybersecurity>), primarily funded by the European Space Agency (ESA) via its ARTES/ScyLight programme.

QUARTZ aims to develop an innovative, commercially viable Quantum Key Distribution (QKD) system to distribute cryptographic keys to end-users via satellite optical links. Cryptographic keys are the fundamental secrets used by mathematical algorithms to secure digital communications, bringing to life modern applications where security is paramount. Common examples of these are e-commerce and online banking. QKD, unlike the traditional cryptographic key distribution which is in use today, leverages principles of quantum mechanics to provide keys that remain secure even in the face of growing threats to the current cryptographic ecosystem, such as quantum computing.

itrust consulting has a major role in the secure design of the ground station system components that manage the concrete distribution and lifecycle of the QKD keys for its end-users on site so that they may seamlessly be integrated to applications. This prolongs the tradition of itrust consulting of participating in cutting-edge research projects - such as bloTope on the Internet of Things, ATENA on cybersecurity for critical infrastructures, and TRESPASS on socio-technical aspects of security – for the benefit of its current and future customers in cybersecurity, and to develop its own tools, such as TRICK Service, for risk management.

More details on QUARTZ can be found at: https://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/Space_photons_bring_a_new_dimension_to_cryptography.

About itrust consulting

itrust consulting, an SME from Luxembourg specialising in Information Security helps its customers from both the public and private sectors to protect their information against any divulgation, manipulation, or unavailability. Its services are related to building, implementing, and auditing Information Security Management Systems, assessing and treating risk with its own TRICK Service tool, deploying security experts whenever needed (SECaaS, or Security as a Service), on request hacking of our customers and handling cybersecurity incidents (malware.lu CERT), or designing and operating security solutions for ICT. These services benefit intensively from co-funded national and European research projects.