

Sparkle Successfully Completes First Test of an International VPN Protected with Quantum Encryption

The trial, also supported by Telsy's specific expertise, has confirmed the first Internet Protocol secure (IPsec) tunnel between Italy and Germany with advanced quantum-safe protection methods

LONDON, May 16, 2024 (GLOBE NEWSWIRE) -- Arqit Quantum Inc. (Nasdaq: ARQQ, ARQQW) (Arqit), a leader in quantum-safe encryption, and Telecom Italia Sparkle, the first international service provider in Italy and among the top global operators, announce the successful completion of a Proof of Concept (PoC) on the first Internet Protocol secure (IPsec) tunnel between Italy and Germany using Arqit's Symmetric Key Agreement Platform. The test was supported by Telsy, a TIM Group company specialized in cybersecurity.

The PoC showcases the integration of Quantum Arqit's technology using Symmetric Key Agreement (SKA) into Sparkle's state-of-the-art network infrastructure, ensuring enhanced encryption methods for data transmission across geographical borders.

This important step marks the creation of a software quantum-safe Virtual Private Network (VPN), standing as a pivotal moment in network security. Being software based, the SKA Platform is quickly and easily scaled across any existing telecom network ensuring that sensitive data remains protected against potential decryption by future quantum algorithms, thereby mitigating the risks associated with evolving cybersecurity threats.

Daniele Mancuso, Sparkle's Chief Marketing & Product Management Officer said: "Our state-of-the-art global network provides critical services to carriers, institutions and enterprises who choose and trust Sparkle's leading secure connectivity services to keep their data safe. The successful completion of the quantum-safe VPN PoC, preliminary to a large-scale commercial launch, anticipates the potential threat of quantum decryption and confirms our market leading commitment to continuously elevating the security and resilience of Sparkle's infrastructure."

David Williams, Arqit Founder, Chairman and CEO said: "Sparkle's establishment of the first quantum-safe VPN between Catania and Frankfurt signifies a key milestone in telecoms cybersecurity. By leveraging Arqit's SKA Platform, Sparkle is pioneering a new era of secure communication, ensuring the resilience of critical networks against the looming threat of quantum adversaries."

About Sparkle

Sparkle is TIM Group's Global Operator, first international service provider in Italy and among the top worldwide, offering a full range of infrastructure and global connectivity services – capacity, IP, SD-WAN, colocation, IoT connectivity, roaming and voice - to national and international Carriers, OTTs, ISPs, Media/Content Providers, and multinational

enterprises. A major player in the submarine cable industry, Sparkle owns and manages a network of more than 600,000 km of fiber spanning from Europe to Africa and the Middle East, the Americas and Asia. Its sales force is active worldwide and distributed over 33 countries.

Find out more about Sparkle following its [X](#) and [LinkedIn](#) profiles or visiting the website tisparkle.com

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About Arqit

Arqit Quantum Inc. (Nasdaq: ARQQ, ARQQW) (Arqit) supplies a unique encryption software service which makes the communications links of any networked device, cloud machine or data at rest secure against both current and future forms of attack on encryption – even from a quantum computer. Compatible with NSA CSfC Components and meeting the demands of NSA CSfC Symmetric Key Management Requirements Annexe 1.2. and RFC 8784, Arqit's Symmetric Key Agreement Platform uses a lightweight software agent that allows end point devices to create encryption keys locally in partnership with any number of other devices. The keys are computationally secure and facilitate Zero Trust Network Access. It can create limitless volumes of keys with any group size and refresh rate and can regulate the secure entrance and exit of a device in a group. The agent is lightweight and will thus run on the smallest of end point devices. The product sits within a growing portfolio of granted patents. It also works in a standards compliant manner which does not oblige customers to make a disruptive rip and replace of their technology. Arqit is winner of two GSMA Global Mobile Awards, The Best Mobile Security Solution and The CTO Choice Award for Outstanding Mobile Technology, at Mobile World Congress 2024, recognised for groundbreaking innovation at the 2023 Institution of Engineering and Technology Awards and winner of the National Cyber Awards' Innovation in Cyber Award and the Cyber Security Awards' Cyber Security Software Company of the Year Award. Arqit is ISO 27001 Standard certified. www.arqit.uk

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Source: Arqit