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# Ampliphae, HPE Athonet and Arqit deliver Quantum-Safe Private 5G using Symmetric Key Agreement

LONDON, Jan. 23, 2024 (GLOBE NEWSWIRE) -- Arqit Quantum Inc. (Nasdaq: ARQQ, ARQQW) (Arqit), a leader in quantum-safe encryption, and Ampliphae Ltd (Ampliphae), a leader in network cyber security solutions, have today announced successful completion of a project that will deliver enhanced quantum-safe security for Private 5G networks.

The Security Enhanced Virtualised Networking for 5G (SEViN-5G) project, funded by Innovate UK, the UK Government's innovation agency, leveraged Ampliphae's network security analytics technology and Arqit's Symmetric Key Agreement Platform to deliver a quantum-secure Private 5G testbed that can protect against both current and future cyber threats. Athonet, a Hewlett Packard Enterprise acquisition, provided the Radio Access Network (RAN) equipment for the project with a cloud core hosted on AWS.

Private enterprise networks based on 5G cellular technology are accelerating digital transformation across industries including manufacturing, healthcare, defence and smart cities. Private 5G gives enterprises access to high-speed, massively scalable, and ultra-reliable wireless connectivity, allowing them to implement innovative IoT and mobile solutions that enhance productivity, drive automation and improve customer engagement.

The security of these networks will be paramount as they will support safety-critical infrastructure and carry highly sensitive data. But like any new technology, 5G comes with potential new threats and security risks including the threat from quantum computing. The project finished in December 2023 and customer engagement has already begun.

**David Williams, Arqit Founder, Chairman and CEO said:**

"Enterprises want to deploy Private 5G networks with complete confidence that they will be safe from both current and future cyber threats including from quantum computers. Working alongside Ampliphae, we have shown that a quantum-safe Private 5G network is deliverable using Arqit's unique encryption technology."

**Trevor Graham, Ampliphae CEO said:**

"Private 5G can be hosted partly or completely in the Cloud, giving enterprises the opportunity to rapidly set up their own cellular networks customised to support their operations. With Ampliphae and Arqit they can now be certain that those Private 5G networks are monitored and secure against eavesdropping and disruption."

**Nanda Menon, Senior Advisor Hewlett Packard Enterprise said:**

"In an era where security is paramount, the completion of the SEViN-5G project is a significant milestone. The delivery of a quantum-secure Private 5G testbed, achieved where Athonet have combined the Athonet core with CableFree radios, underscores the

commitment to innovation and reinforces the confidence enterprises can have in deploying networks that are both cutting-edge and secure from both present and future threats."

**About Arqit**

Arqit Quantum Inc. (Nasdaq: ARQQ, ARQQW) (Arqit) supplies a unique encryption Platform as a 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. Compliant with NSA standards, Arqit's Symmetric Key Agreement Platform delivers a lightweight software agent that allows devices to create encryption keys locally in partnership with any number of other devices. The keys are computationally secure and operate over zero trust networks. 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. Recognised for groundbreaking innovation at the Institution of Engineering and Technology awards in 2023, Arqit has also won the Innovation in Cyber Award at the National Cyber Awards and Cyber Security Software Company of the Year Award at the Cyber Security Awards. Arqit is ISO 27001 Standard certified. www.arqit.uk

**About Ampliphae**

Ampliphae's distributed network analytics technology provides insight into how networks are used to support enterprise operations at every level. A graduate of the prestigious LORCA cyber accelerator in London, and the AWS European Defence Accelerator, Ampliphae's technology is already used by enterprises across multiple verticals to discover, analyse and secure the network traffic that supports their key applications and business processes. Ampliphae's Encryption Intelligence product operates at enterprise scale to discover devices and applications that use cryptography, analysing their encryption capabilities to detect risks, including assets that are vulnerable to future quantum computer attack. Using Encryption Intelligence, the organisation can gather effective operational intelligence about their encryption landscape, both within and outside the organisation, and build an effective mitigation program to address current and future vulnerabilities. https://www.ampliphae.com/encryption-intelligence/

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**Caution About Forward-Looking Statements**

This communication includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, may be forward-looking statements. These forward-looking statements are based on Arqit's expectations and beliefs concerning future events and involve risks and uncertainties that may cause actual results to differ materially from current expectations. These factors are

difficult to predict accurately and may be beyond Arqit's control. Forward-looking statements in this communication or elsewhere speak only as of the date made. New uncertainties and risks arise from time to time, and it is impossible for Arqit to predict these events or how they may affect it. Except as required by law, Arqit does not have any duty to, and does not intend to, update or revise the forward-looking statements in this communication or elsewhere after the date this communication is issued. In light of these risks and uncertainties, investors should keep in mind that results, events or developments discussed in any forward-looking statement made in this communication may not occur. Uncertainties and risk factors that could affect Arqit's future performance and cause results to differ from the forward-looking statements in this release include, but are not limited to: (i) the outcome of any legal proceedings that may be instituted against the Arqit, (ii) the ability to maintain the listing of Arqit's securities on a national securities exchange, (iii) changes in the competitive and regulated industries in which Arqit operates, variations in operating performance across competitors and changes in laws and regulations affecting Arqit's business, (iv) the ability to implement business plans, forecasts, and other expectations, and identify and realise additional opportunities, (v) the potential inability of Arqit to successfully deliver its operational technology, (vi) the risk of interruption or failure of Arqit's information technology and communications system, (vii) the enforceability of Arqit's intellectual property, and (viii) other risks and uncertainties set forth in the sections entitled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements" in Arqit's annual report on Form 20-F (the "Form 20-F"), filed with the U.S. Securities and Exchange Commission (the "SEC") on 21 November 2023 and in subsequent filings with the SEC. While the list of factors discussed above and in the Form 20-F and other SEC filings are considered representative, no such list should be considered to be a complete statement of all potential risks and uncertainties. Unlisted factors may present significant additional obstacles to the realisation of forward-looking statements.


Source: Arqit