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ARQIT

Arqit, Es’hailSat and AIEE Demonstrate Quantum-Safe Satellite Security

LONDON and DOHA, Sept. 01, 2026 (GLOBE NEWSWIRE) -- Arqit Quantum Inc. (NASDAQ: ARQQ, ARQQW), a global leader in quantum-safe encryption, Es’hailSat - the Qatar Satellite Company - a world-class satellite operator and service provider with coverage spanning the MENA region - and Advanced International Electronic Equipment Company (AIEE), a specialist systems integrator for secure communications infrastructure, today announced the successful demonstration of quantum-safe security across operational satellite communications infrastructure.

The collaboration demonstrates a practical way for satellite operators and critical infrastructure providers to strengthen communications resilience in the face of emerging quantum threats, without interrupting live operations.

As governments and infrastructure operators prepare for the cybersecurity implications of quantum computing, protecting long-life communications infrastructure is becoming increasingly important. This is particularly relevant in sectors where reliability and operational continuity are critical.

The collaboration integrated Arqit’s quantum-safe encryption technology within Es’hailSat’s live satellite environment at 25.5/26° East hotspot, using existing operational infrastructure of Es’hailSat’s Tier-4 certified Teleport facility in Doha. The demonstration showed how quantum-safe cryptographic protection can be introduced across existing satellite-connected networks with no adverse effect to existing systems, services or operational performance.

The project validates a practical and feasible route for introducing quantum-safe protection into existing satellite environments supporting government, enterprise, maritime, energy and critical infrastructure communications.

Es’hailSat provided the operational satellite environment using Es’hail-1 satellite for the demonstration, while AIEE led systems integration and interoperability testing across the ground and network infrastructure.

“Satellite infrastructure supports some of the world’s most operationally sensitive environments,” said Andy Leaver, CEO of Arqit. “What’s important about this project is that it proves a practical path to strengthening quantum-safe cryptographic resilience without requiring operators to rebuild existing infrastructure. That operational reality matters especially in critical infrastructure environments, where disruption simply isn’t an option.”

Mr. Ali Al Kuwari, President & CEO of Es’hailSat, said: “Es’hailSat’s satellite networks are critical to Qatar’s national infrastructure, economic development and secure digital transformation across the Middle East and North Africa region. This collaboration reflects our commitment to exploring technologies that can strengthen long-term communications resilience while maintaining operational continuity for customers and stakeholders operating critical services

Adam St Paul, Chief Technology Officer, AIEE, said: “This demonstration shows that organisations do not need to replace existing systems to achieve stronger security. By introducing quantum-safe protection into operational environments, satellite operators and critical infrastructure providers can ensure their communications remain resilient against the growing challenges posed by both state and non-state actors, while maintaining the continuity and reliability upon which their operations depend.”

The successful demonstration establishes a foundation for future quantum-safe satellite communications deployment, supporting secure enterprise connectivity, sovereign communications resilience, and the long-term protection of critical infrastructure.

About Es’hailSat

Es’hailSat – The Qatar Satellite Company, incorporated in 2010, provides satellite, broadcast, teleport, and managed services. Es’hailSat is a private joint stock company wholly owned by the Qatar Investment Authority (QIA). Strategically located in Doha, Qatar, our coverage extends across the Middle East and North Africa, delivering critical communication solutions to broadcasters, telecommunications providers, enterprises, and government entities. Our satellites, Es’hail-1 and Es’hail-2, are co-located at the 25.5°/26°E orbital position, recognized as the prime TV broadcasting hotspot for the MENA region. Complementing this orbital infrastructure is our 50,000 sqm Tier-4 certified teleport facility, enabling the delivery of reliable, secure, and high-performance connectivity services.

About AIEE

Advanced International Electronic Equipment Company (AIEE) is a leading systems integrator specialising in advanced communications, cybersecurity, and critical infrastructure solutions across government, defense, and enterprise sectors.

About Arqit

Arqit Quantum Inc. (Nasdaq: ARQQ, ARQQW) secures the world’s most critical data with quantum-safe encryption software. Simple, scalable, and compliant, its products integrate with existing infrastructure and require no rip and replace of hardware.

Arqit provides a complete “Detect, Protect, Comply” solution for governments and enterprises that detects and inventories cryptographic assets, protects data, ensures compliance, and safeguards transition to the post-quantum era.

Arqit’s primary product offerings are Encryption Intelligence and NetworkSecure™. Encryption Intelligence detects cryptographic exposure, identifies vulnerabilities, and maps dependencies. NetworkSecure™ protects data in transit with provably secure post-quantum cryptography and contributes to establishment of confidential compute environments for complete data sovereignty.

Arqit is an IDC Innovator for Post-Quantum Cryptography (2024) and a multi-award-winner in quantum-safe security. For more information, visit www.arqitgroup.com.

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