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MagiQ Technologies Announces a Significant Increase in Network Security Through First Commercial Exploitation of Decoy State Based Quantum Cryptography Solution

QPN 8505 Delivers on Customer Requirements for Enhanced Threat Profile

NEW YORK, NY - SEPTEMBER 12, 2006 – MagiQ Technologies, Inc., the quantum information processing (QIP) company, today announced the QPN 8505 quantum encryption solution. The QPN 8505 leverages breakthroughs in the underlying quantum cryptography architecture that provide customers greater distances, higher key rates, and more reliable deployment through utilization of the decoy state architecture.

Features for the QPN 8505 include:

- Decoy state architecture that provides greater distance and reliability
- Secure Fire photon transmission and Secure Sense photon reception that increases the key rate dramatically
- Gigabit data channels integrated with quantum keys and scalable to eight Gig E data ports
- Remote monitoring and management to meet customer requirements for cost-effective, centralized control
- Multiplexing of data and quantum channel over a single fiber, reducing the cost of deployment
- Long haul network support, including the ability to cascade many systems

“Customers have really partnered with MagiQ to define ultra safe network security. Building on the sales success of the QPN 7505, we expect the QPN 8505 to be the most successful offering in MagiQ’s history.” said Bob Gelfond, CEO of MagiQ Technologies. “Decoy state architecture (DSA) is accelerating the customer adoption of MagiQ’s quantum cryptography solutions.”

The decoy state architecture, using signals of different intensities, increases the distance and key generation rate of MagiQ's quantum cryptography solution. Distance of transmission and the underlying key rate are the most important variables in defining the quality of implementation for quantum cryptography products. The utilization of DSA provides for single spans of up to 140 km. For example, Telcos can bridge three separate spans of 140km by cascading a number of MagiQ's QPN 8505 devices equally - a total distance of 420 km. The commercial fiber network is made up of spans, typically 80km to 140km, linked together to complete metro area networks and long haul networks. Cascading of quantum cryptography devices enables the deployment of quantum cryptography throughout the telecommunications network.

The QPN 8505 is a next-generation quantum cryptography system that relies on the laws of physics rather than the computational difficulty of breaking keys. It is easily integrated into existing digital computing network infrastructures and incorporates real-time key generation with quantum distribution for absolute certainty in detecting compromised keys and in providing real time intrusion detection. MagiQ's QPN delivers always-on industry standard IPsec based VPN protection while providing an additional layer of security via quantum cryptography. The system offers cost-effective protection from both internal threats, such as disgruntled employees, and external threats. MagiQ's QPN 8505 is targeted at government applications including military, intelligence gathering and homeland defense. Commercial applications include financial services, Telco carriers and disaster recovery. The QPN 8505 is currently in beta phase with commercial availability expected late in 2006. Organizations interested in a test drive of the QPN 8505 should apply at [MagiQ Technologies](#) .

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