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ASX ANNOUNCEMENT

Senetas announces the first quantum resistant network encryption capability

Senetas Corporation Ltd (ASX: SEN) (Senetas), today announces the first to market high-assurance quantum resistant network encryption cybersecurity solution. Senetas quantum resistant encryption will provide sensitive government and business network data the necessary long-term protection against the emerging threat of quantum computing by adding quantum resistant features to its current hardware network encryption platform.

Universally regarded as the most significant threat to cybersecurity in history, quantum computing in the hands of bad actors will put today's conventional mathematics-based public key data encryption at risk.

Senetas's quantum evolution enables customers to combine both conventional and quantum resistant encryption in a single platform – 'hybrid encryption' - providing customers a secure transition starting 'today' to a future quantum-safe world.

Senetas CEO, Andrew Wilson, said: "As quantum computing becomes a reality, organisations around the world should develop a quantum security strategy and start planning to implement quantum resistant network encryption sooner rather than later in order to be certain network data is secure for the long-term.

"At its essence, quantum computing uses principles of quantum mechanics to perform certain calculations and tasks at phenomenal speeds. IBM, Google and Microsoft, along with many state sponsored programs, are competing to develop a quantum computer outside a lab environment," Mr Wilson said.

"The advent of the world's first practical quantum computer will render today's conventional public key encrypted infrastructures insecure, making sensitive information vulnerable across governments', defence agencies', and businesses' public and private networks.

"Today, to decrypt conventionally encrypted data could take thousands of man-years using the most powerful computers available. In the future quantum computers will enable decryption of that data in a matter of seconds, minutes or hours. Good cybersecurity demands that data be secure for the very long-term.

"Senetas is the first to take to market high-assurance network encryptors that can provide Quantum Resistant Encryption (QRE) in addition to today's state-of-the-art classical encryption security. Our government, defence and business customers can make a secure transition to a future quantum-safe world." Mr Wilson said.

IBM estimates that a working quantum computer outside a lab environment will be a reality within the next five years. However, the likelihood that rogue states are working on quantum computing is high, and it is possible that quantum computing will be in use before the world is alerted to its development.





"In Australia, we have recently seen large-scale cyber-attacks attributed to bad 'state-based actors.' Similar cyber-attacks using quantum computers will be devastating unless the data is protected by quantum resistant encryption." Mr Wilson said.

"Governments and businesses around the world use today's conventional encryption to protect sensitive data such as private citizen information, intellectual property; government, defence and business secrets and access to critical national infrastructure control systems. Today, they can have the added security of quantum resistant network encryption capability to ensure they remain secure in the future."

Future-proofing encryption solutions today requires a hybrid of conventional cryptography and quantum resistant encryption techniques. Senetas's quantum resistant encryption will be available to existing customers on their current platforms. The availability of quantum resistant capabilities in a commercial product today, marrying both conventional and quantum security in a single solution allows Senetas customers to start their transition to a quantum-safe future.

"Senetas is now well positioned to meet customers' future needs as early as they require. Our 'hybrid-encryption' enables both classical and quantum resistant encryption today and is expected to provide additional revenue opportunities for Senetas as the threats from quantum computing emerge." Mr Wilson said.

Senetas will distribute its quantum resistant encryption solution to customers in Australia and New Zealand, and to all international markets through its international distributor, Thales.

Senetas QRE solutions will help to future-proof network data security against quantum computing, the most significant threat to cybersecurity in history.

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ABOUT SENETAS

Senetas is a global leader in high-performance encryption security solutions. Senetas cybersecurity solutions are developed and manufactured in Australia. **Senetas high-speed encryptors** protect network data in transit without compromising performance. They include certified high-assurance hardware encryptors for core IT network infrastructure and virtualised encryption to the network edge. For secure user-friendly file sharing and collaboration, **SureDrop** is the most secure application also providing 100% data sovereignty control and protection against malware and zero-day attacks.



All Senetas solutions share a crypto-agile and quantum-ready end-to-end encryption platform.

Senetas solutions are used to protect much of the world's most sensitive data, from enterprise, government, defence and intelligence agency data, to technology service provider and critical national infrastructure customers against data breaches and cyber-attacks. Leveraging end-to-end encryption, state-of-the-art key management and quantum-ready design, they provide long-term data protection without compromising network and application performance, or user experience.

Senetas encryption solutions are used in more than 40 countries. They are distributed and supported internationally by Thales, the world's largest security company.

www.senetas.com