

Quintessence Labs

Data Uncompromised

Securing your World through Quantum Innovation

QuintessenceLabs combines leading-edge data security capabilities with the latest advances in quantum innovation, delivering the strongest foundation to protect all your data, today and tomorrow.





Unique quantum solutions delivering the most trusted level of cybersecurity.



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In a world where data is too important to be compromised, and security threats worldwide have increased in both number and sophistication, QuintessenceLabs delivers powerful and proven protection enhanced by the quantum power of nature.

We push the boundaries of what is possible in data security so you can focus on pushing boundaries of your own.

We are at the forefront of next-generation cybersecurity, keeping the world's data safe from the most sophisticated attacks, even the threat of quantum computers.

Faced with a range of new and ever-evolving data security threats, the stakes for cybersecurity are higher than ever — and are increasing each day. Our ever-expanding global data is subject to growing attacks, and a new threat, that of quantum computers, is emerging, requiring businesses and security leaders to re-assess how we approach cybersecurity risk and how best to secure our information.

Founded in 2008 in Canberra, Australia, QuintessenceLabs has successfully brought together a world-class team of global information security experts, quantum physicists, and communications specialists — to help protect all your data no matter where it is. We offer an integrated portfolio of unique protection capabilities, from the world's fastest commercial quantum random number generator (QRNG), to highly capable and interoperable centralized key and data security policy management, and combine these capabilities seamlessly to meet every security need.

In addition, we are pioneering development of second-generation quantum key distribution, harnessing physics to protect your data, keeping it safe from the most powerful computational and quantum attacks.

Around the world, banks, cloud service providers, government agencies, technology providers, defence primes and more have all chosen QuintessenceLabs to help them build the strongest security foundation. This includes:

- Implementing enterprise-wide data protection capabilities with our vendor-neutral enterprise-wide key and policy management solution. The Trusted Security Foundation™, our encryption key and policy manager, delivers best-in-class practice key and policy management capabilities, while incorporating the world's fastest 1 Gbit/s QRNG so you don't have to compromise on performance, ease of integration or the security and strength of your keys.
- Maximizing the security and performance of their network with qStream Plus™, our quantum entropy appliance with a built-in entropy enhancer. qStream Plus monitors the level of entropy in your network and tops it up with fully random quantum random numbers to avoid performance blocking, or the need to resort to lower security pseudo-random numbers.
- Delivering seamless certificate management, end-point encryption and secrets management through integration with our approved Technology Alliance Partners.
- Enabling the highest performance and security of IoT enabled devices through the highest quality entropy.

Quantum science is delivering dramatic changes to the world as we know it, enabling developments in medicine, remote sensing, and materials science.

While quantum computers are expected to break the main encryption protocols used today, quantum techniques can also be used to strengthen data protection, both delivering higher security today while preparing a foundation for a quantum-safe future.





About QuintessenceLabs

QuintessenceLabs' portfolio of modular products addresses the most difficult security challenges, helping implement robust security strategies to protect data today and in the future. For more information on QuintessenceLabs' data protection solutions, please visit www.quintessencelabs.com.

CANBERRA | SYDNEY | SAN JOSE | WASHINGTON D.C. | LONDON

AUSTRALIA

Unit 1, Lower Ground
15 Denison St
Deakin, ACT 2600
+61 2 6260 4922

UNITED STATES

175 Bernal Road
Suite 220
San Jose CA 95119
+1 650 870 9920

www.quintessencelabs.com

Document ID: 4635

