



01 Quantum Announces Groundbreaking Quantum Crypto Wrapper (QCW) technology to protect crypto from quantum attacks

ZK-Proofs (ZKP) recognized by a16z and the U.S. government's 2025 crypto report - now combined with quantum-resistant cryptography to secure digital assets including stablecoins.

TORONTO, ON — [September 17, 2025] — 01 Quantum Inc. (TSXV: ONE; OTCQB: OONEF), formerly 01 Communique Laboratory Inc., one of the first-to-market, enterprise level cybersecurity providers for the quantum computing era and qLABS, [www.qlabs.tech](http://www qlabs tech), a crypto foundation focused on quantum resilience, are pleased to announce the Quantum Crypto Wrapper (QCW) technology designed to address the potential cybersecurity threat from quantum computers to the \$3.8 trillion crypto industry. This innovation builds on a combination of ZKP and IronCAP™, 01 Quantum's NIST approved post-quantum cryptography. ZKP is a cryptographic method that allows one party (the prover) to demonstrate to another party (the verifier) that a statement is true without revealing any additional information beyond the fact that the statement is indeed true. This is important for crypto as it allows multiple complicated verifications combined into a single fast and compact verification. This dual-layer approach allows for secure validation of quantum-resistant transactions on existing blockchains, without requiring a new Layer 1 chain or a dedicated validator network.

According to CoinMarketCap the global crypto market is now valued at **\$3.8 trillion** (including stablecoins) and with quantum-resistant timelines for financial infrastructure being accelerated at regulators, ensures the long-term security of digital assets is becoming an even more critical concern. This is significant as the GENIUS Act passed in July 2025 in the U.S. requires stablecoins to be backed 1-for-1 with cash or short-term debt making stablecoins a major source for U.S. Treasuries. Although the market has reached significant maturity, it remains exposed to quantum threats due to reliance on classical cryptographic algorithms like ECDSA. **01 Quantum and qLABS are addressing this vulnerability** by delivering QCW that integrates seamlessly with existing blockchain infrastructure, improving security without sacrificing interoperability or performance.

For Technical details refer to the QCW white paper <https://qlabs.gitbook.io/quantum-crypto-wrapper-by-01-quantum-inc/>.

Technical Highlights

- Patent-pending method (US #63/832787): Combines post-quantum signatures with ZKP for efficient and compact verification.
- Integration-first design: Compatible with existing major blockchains like Ethereum, Solana, Bitcoin, and Hyperliquid, ensuring adoption without ecosystem migration.
- Performance optimization: Designed to operate on conventional systems today, while resistant to attacks from next-generation quantum computers.
- Scalable toolkit: Includes support for wallets, wrapped quantum-resistant tokens, and future post-quantum stablecoins.

“Combining years of experience in post-quantum cybersecurity, collaboration with NIST, and commercial software engineering, we are excited providing to qLABS our QCW technology for the crypto industry including stablecoins. Combining ZKP with enterprise-grade post-quantum cryptography for blockchain security is very novel and secure,” said Andrew Cheung, CEO of 01 Quantum. “Our mission is to give the crypto industry the confidence that digital assets can remain secure not just today, but in the quantum era ahead. It is important to understand that encrypted data being harvested today

can be stored with the intent to decrypt it once quantum capabilities mature. Without proactive defenses, today's assets could be compromised tomorrow."

qLABS: Path to Adoption

qLABS, launched in September 2025 under the leadership of Antanas Guoga (Tony G), will spearhead the rollout of this technology across the crypto ecosystem. Its roadmap includes:

- Quantum-resistant wallets for individuals and institutions.
- Quantum-resistant tokens on most popular chains
- Wrapped tokens enabling any asset to become quantum-resistant while still on the legacy chain
- Quantum-resistant zk-proof verification protocol integration for DeFi and dApps, allowing developers to build quantum-resistant applications from day one.

"qLABS is not waiting for quantum attacks to arrive, we are preparing the crypto industry now," said Tony G, President of qLABS. "By integrating 01 Quantum's technology into real blockchain infrastructure, we are providing the additional layer of security we feel is necessary to protect the crypto industry from the quantum threat."

The arrival of Q-Day, the moment quantum computers can break widely used encryption, poses a looming threat to digital security. In anticipation of this, and the growing risk of "harvest now, decrypt later" attacks where encrypted data is stockpiled for future quantum decryption, global technology leaders are already adopting post-quantum cryptographic methods. Yet crypto remains largely exposed, with most public blockchains vulnerable to quantum-based key extraction techniques.

About 01 Quantum Inc.

01 Quantum Inc., formerly 01 Communique Laboratory Inc., (TSX-V: ONE; OTCQB: OONEF), is known for its innovative work in post-quantum cybersecurity and remote access solutions. The Company's cyber security business unit focuses on post-quantum cybersecurity with the development of its IronCAP™ product line. IronCAP™'s technologies are patent-protected in the U.S.A. by its patents #11,271,715 and #11,669,833. The Company's remote access business unit provides its customers with a suite of secure remote access services and products under its I'm InTouch and I'm OnCall product offerings. The remote access offerings are protected in the U.S.A. by its patents #6,928,479 / #6,938,076 / #8,234,701; in Canada by its patents #2,309,398 / #2,524,039 and in Japan by its patent #4,875,094. For more information, visit the Company's web site <https://01quantuminc.com> | <https://01com.com> and follow us on our blog at <https://blog.01com.com/wp>

About qLABS

qLABS is the first quantum-native crypto foundation, developing blockchain solutions that are resistant to quantum computing threats. With a focus on post-quantum security, qLABS builds infrastructure that will protect Web3 from Q-Day and beyond.

For more information visit qLABS's web site at <https://qlabs.tech/> / <https://x.com/qlabsofficial> and follow them on their blog at <https://www.linkedin.com/company/qlabsofficial/>

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