SafeQuard: Protect your Data Assets against Quantum Harvesting Attacks.

About pQCee:

pQCee Pte Ltd is a quantum cybersecurity startup. We design and build post-quantum products and services to strengthen and protect the next generation of computing against quantum attacks. Please visit www.pqcee.com or contact info@pqcee.com for more details.

About the SafeQuard offering

The Transport Layer Security (TLS) is the de-facto security channel for all businesses that operate over the Internet. However, the promise of data confidentiality is no longer possible with the advent of quantum computers. An attacker can collect the encrypted TLS communications between the users' devices and data centers today ("harvesting") and use a quantum computer to decrypt the communications sometime in the near future ("attack"). Sensitive data such as authentication credentials (passwords, biometric minutiae), transaction details (payee, account numbers, transaction values) and customer information will be targeted by such attacks.

SafeQuard, by pQCee, is a suite of quantum-safe cryptographic tools that secures data against harvesting attacks. SafeQuard is Javascript-based which can be dynamically loaded and executed within web browsers to protect specific HTML fields without any separate installation or configuration. By using standards-based Post-Quantum Cryptography, SafeQuard ensures that harvested data are resistant against attacks by quantum computers.

Specifications

Front-end	Javascript + WASM on PC and Mobile
Browsers supported	Chrome v125.x Edge v125.x Firefox v126.x Safari 17.2.x
Key Encryption	Kyber ML-KEM-768
Data Encryption	AES-CTR-256

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