

QuProtect™ capability highlight.

Secure web application communication.

QuSecure offers the world's first post quantum cryptographic (PQC) security solution that enables organizations to address their post quantum cryptography business and technology challenges and opportunities.

Our solution for quantum-resilient cryptographic orchestration, QuProtect enables organizations to integrate, deploy, and evaluate post quantum cryptographic solutions that suit their unique infrastructure environments.

With QuProtect organizations can realize the rare opportunity for first-mover market advantage and become quantum cyber security leaders. With the capability to be deployed in a matter of hours and provide layered and configurable classical and quantum-safe encryption, QuProtect provides valuable protection and differentiation across industries.

Securing Web Application Communications

The explosion of web and mobile-based applications has been enormous over the last decade. Businesses, consumers and governments heavily rely on them to facilitate digital traffic, communications, and transactions.

QuProtect Web App Security protects web application communication to ensure valuable and vulnerable web data is protected against threats today and tomorrow.

Key Solution Benefits

Quantum Safe Connections With Unchanged End User Experience

Seamless protection leveraging NIST PQ algorithms.

Cryptographic Agility

Full admin control over multiple post-quantum and traditional cryptographic algorithms, key lengths, and rotation frequencies that enable high entropy keys for quantum resistant connections.

Zero Trust Foundations

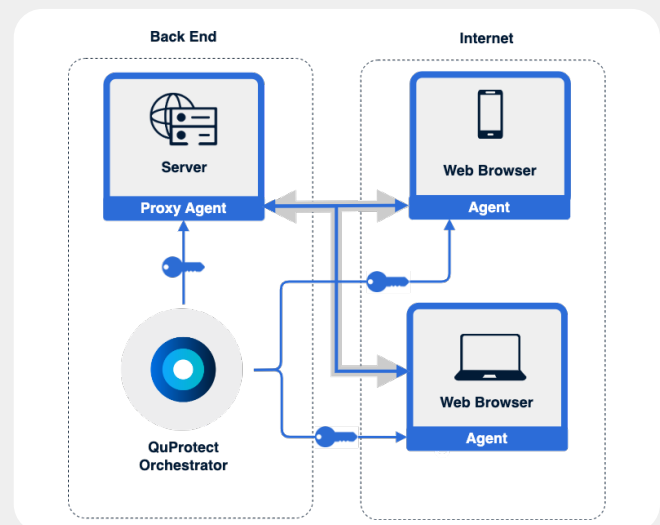
Enabling Zero Trust network architecture as defined by NIST SP 800-207

Standards Based & Compliant

Including NIST and compliance with the new Quantum Computing Cyber Security Preparedness Act for trusted delivery of quantum resilience.

Web App Security Overview

Web App Security provides post-quantum, agile encryption channels for secure web application communication on any end-user device with zero-install or change in experience for the end user.



- ✔ **Protection for any end user device**
 Secure web application communications on mobile, desktop, and IoT devices.
- ✔ **Cryptographic Controls**
 QuProtect's revolutionary control plane provides administrators with insights to monitor and manage secure connections. Admins can select which NIST recommended post-quantum algorithms are utilized and with cryptographic agility can easily adjust their selection in case of changing standards.
- ✔ **Post-Quantum Protection Works In Tandem With TLS and Hybrid Post-Quantum TLS**
 QuProtect provides advanced controls over today's encryption standard, TLS, as well as recent implementations of hybrid post-quantum TLS.
- ✔ **Unchanged End User Experience**
 There is no download or install required of the end-user. The web app's appearance and overall user experience remains unaltered.

Web App Security Use Case Overview



Recommended Use Cases



Protect Web Portal Data – Healthcare Patient Medical Records

Patients and healthcare providers like Kaiser Permanente and United Health Group are constantly transmitting private sensitive medical information and records via web portals and healthcare apps. That data is currently exposed to both classical and quantum computing threats. To safeguard patient, provider and insurer data against exposure and potential liabilities QuProtect's PQC solution allows care givers to focus on their patient's healthcare while continuing to exhibit no change in the patient/provider/insurer experience through their web portals and apps.



Protect Transactions – Sending & Receiving Funds Via Banking Apps

Every day, everywhere, every minute financial transactions are occurring on banking apps (between consumers and funding institutions like Wells Fargo, JPMorgan Chase & VeroWay). The transmission of all that data and money is at risk to exposure and theft. QuProtect with its end-to-end PQC and crypto agility ensures robust security against classical and post-quantum threats and attacks. It safeguards sensitive data such as account details and transaction records, providing customers with peace of mind and maintaining the integrity of financial transactions and the banking institutions.



Protect Company-Sensitive Information – Legal & Board Minutes Web Applications

Confidential meeting software like Clio and OnBoard are used to protect sensitive documents but are currently vulnerable to Steal Now Decrypt Later (SNDL) attacks and other post-quantum threats. Deploying the QuProtect software solution easily ensures a seamless transaction to stronger PQC NIST approved algorithms which gives granular access control, authentication, and quantum resilience, protecting the flow of confidential information against unauthorized access and threats from the emerging technologies of AI and quantum computing.



Protect Digital Document Sharing – Confidential Multi-Party Document Sharing

Web-based apps like DocuSign have become prolific in conducting business today. From homeowners closing a mortgage to businesses signing legal documents the risk to this data being exposed is tremendous. However, QuProtect can guard that data using its quantum resilient software employing zero-trust principles so that only authorized parties have access, guaranteeing confidentiality even in multi-party sharing environments.

A Scalable Solution – Start Today

STEP 1 – GET STARTED

Post-quantum protect your most vulnerable network segment within hours

Deploying QuProtect does not require discovery nor a rip and replace overhaul to your mission critical systems. Start by selecting a small section of your network with critical data to protect with a low, fixed cost initial deployment on-prem or in the cloud.

STEP 2 – PRIORITIZE & PLAN

Expert guidance to plan your protection

QuSecure's certified Solution Architects will work with you to design a prioritized plan to scale and protect the data and systems that matter most to you.

STEP 3 – PROTECTION AT SCALE

Horizontally scale your quantum protection with ease

QuProtect's cloud native architecture is built to scale with minimal effort to support larger enterprise PQC infrastructure needs.

Secure tomorrow.
Today.

Request A Demo



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