



VIVA

Q-AUTH ENTROPY POOL

Revolutionizing Security with Quantum Entropy as a Service (EaaS)



About Q-Auth Entropy Pool

Q-Auth by Viva Digitally is a state-of-the-art Quantum Entropy as a Service (QEaaS) platform designed to provide ultra-secure quantum keys via the cloud. By integrating with multiple quantum sources, Q-Auth delivers true quantum randomness, ensuring an unprecedented level of security for cryptographic applications. These quantum keys can be utilised in various forms, including:

- **Encryption Keys for secure data transmission**
- **One-Time Passwords (OTPs) for authentication**
- **QR Codes & Barcodes for seamless data sharing**
- **Digital Signatures for document validation**
- **Identity Verification for fraud prevention**

With Q-Auth, enterprises can fortify their cybersecurity infrastructure, ensuring complete data protection and compliance with global security standards.

Why choose Q-Auth?

- **True Quantum Randomness:** Unlike traditional pseudo-random number generators, Q-Auth sources its entropy from quantum fluctuations, making it truly unpredictable and tamper-proof.
- **Cloud-Based Accessibility:** No need for physical quantum hardware—our secure cloud platform provides instant access to quantum keys.
- **Scalability & Integration:** Easily integrates with existing security frameworks across multiple industries, enabling seamless adoption.
- **End-to-End Encryption:** Ensures the highest level of security for critical communications, transactions, and identity verification.



Industry Use Cases:



Telecom: Securing Communications & Identity Verification

Telecom networks are a prime target for cyber threats such as **SIM swapping, identity theft, and call/data interception**. Q-Auth enhances security in the following ways:

- **Quantum-Enhanced SIM Authentication:** Provides unique quantum-generated keys for SIM authentication, preventing SIM swap fraud.
- **Secure Voice & Data Encryption:** Uses quantum keys to encrypt mobile and VoIP communications.
- **Fraud Prevention in Mobile Payments:** Implements quantum-secure OTPs for mobile banking and digital transactions.



Finance: Unbreakable Encryption for Transactions & Data

With cybercrime in the financial sector at an all-time high, banks and financial institutions need advanced security solutions. Q-Auth provides:

- **Quantum-Secure Transactions:** Uses one-time quantum keys for secure online and in-branch transactions.
- **Quantum-Resistant Digital Signatures:** Ensures the authenticity and integrity of financial documents and contracts.
- **Secure ATM & Mobile Banking Access:** Generates secure quantum-based OTPs for customer authentication.



Healthcare: Protecting Patient Data & Medical Records

Healthcare organisations handle vast amounts of sensitive patient data, making them prime targets for cyberattacks. Q-Auth ensures:

- **HIPAA-Compliant Data Protection:** Provides end-to-end encryption for electronic health records (EHRs).
- **Secure Telemedicine & Remote Patient Monitoring:** Uses quantum encryption to protect real-time medical consultations and diagnostics.
- **Tamper-Proof Drug Supply Chain:** Secures pharmaceutical transactions and traceability using QR codes generated from quantum entropy.



How Q-Auth Works?

- **Quantum Source Connection:** Q-Auth connects with multiple quantum entropy sources via cloud-based APIs.
- **Quantum Key Generation:** True quantum randomness is used to generate encryption keys, QR codes, OTPs, and other authentication methods.
- **Seamless Integration:** The platform easily integrates with existing IT infrastructures using APIs, SDKs, or direct cloud access.
- **Instant & Secure Deployment:** Enterprises can instantly implement quantum-secure encryption across their applications.

Future-ready Security!

Q-Auth is designed to be quantum-computer-resistant, ensuring long-term security against evolving cyber threats. Whether your organization operates in telecom, finance, healthcare, or any other industry, Q-Auth guarantees data protection that is truly unbreakable.

VIVA DIGITALLY

INDIA Office

Old No. 151, New No, 312, 9th Floor, Gee Gee
Emerald, Nungambakkam, Chennai - 600034.
Toll-free: 1800-572-1005

UK Office

AMBA House, First floor,
15, College Road, Harrow HA1 1BA
+44 203 500 2077