QWANTUM

Qwantum Media - Overview

Token generation that secures your digital transaction environments for payments, data, access, and so much more

The world of digital transactions is changing and Qwantum Media is leading the way with unmatched security solutions that protect customer data, enable secure electronic transactions, and simplify the management of sensitive data. Qwantum Media solutions blend secure physical ID cards, secure card-reader hardware and token hubs, and cloud-based enterprise systems to provide complete turn-key solutions for secure card issuance, user log-in, user-identification, data encryption, data classification, data storage, and electronic transactions.

Qwantum Environment

When you use Qwantum-Cards, Qwantum Reading, and Qwantum Transmission within a closed loop system, you have everything necessary to create a complete security solution that protects your business and your customers. Qwantum security solutions are particularly well suited for closed loop environments that have a need to manage sensitive data, provide secure online payments, secure value-transfer, crypto-currency, and/or manage secure multi-factor authentication systems. Qwantum solutions provide the cornerstone security features that enable you to build your own customized secure data management solutions.

Qwantum Cards

NO PII Data and NO Financial Account Numbers

Qwantum Cards identify the card and not the person. This unique data format contains NO (PII) personally identifiable

information or payment account number. This removes the cards from PCI scope and provides no value to criminals if the card is lost or stolen. Instead, Q-Cards contain only a unique serial number combined with traditional issuer information and use the dynamic quantum physical attributes of each card for secure authentication. This approach creates a unique and authenticated data image that can be used in electronic transaction infrastructures while simultaneously providing advanced security features, much like a kaleidoscope, data is correlative but never the same.

Qwantum Card Issuance Service

Q-Cards are traditional ID cards that are securely generated and issued as a service of Qwantum Media and can be customized with any artwork desired. These cards utilize magstripe, chip, or NFC technologies for secure data storage with Qwantum Security. Qwantum properties allow for secure card authentication, and prevent card counterfeiting, data alteration, or data-replay attacks.

Qwantum Token Generation

Qwantum Tokens (QTs)

QTs are virtual data capsules that use AES -TDEA encryption to protect sensitive data and encapsulate it with associated meta-data that allows for fast and secure identification, classification, routing, storage, and auditing. QTs can be securely transported between secure hardware points such as HSMs and secure Qwantum Card Readers, thus creating a clearly defined security domain.

The sensitive data contained within the QTs are tagged and classified by specific data types and can only be accessed by pre-authorized individuals per an electronic "security policy" architecture. Q-Tokens simplify the process of protecting sensitive data, controlling access to it, and providing auditable reports of where sensitive data was distributed and used within your organization.

Token Hubs

Qwantum card readers are physically secure hardware devices that have the capability to authenticate the Qwantum Cards, provide cryptographic encryption / decryption of sensitive data, and can manage the use, distribution, and routing of the QTs that carry sensitive data. These card readers can easily integrate into user platforms via USB, Bluetooth, or WiFi interfaces, and act as the Point-of-Interaction for users to log-in, perform electronic transactions, or access sensitive data.

Qwantum card reader devices are available for mounted countertops, desktops, mobile ready for pay-at-the-table and line-busting solutions, and for unattended payment kiosks for self-service solutions. Whatever your environment, there is a Qwantum card reader that will fit your needs.

Qwantum Secure Transmission

Magensa Gateway Services

Qwantum Media leverages Magensa Decrypt and Forward Gateway Services to allow secure support of encrypted data in data environments without third-party service providers supporting a decryption service. The terminal supplies the application programming interface coupled with the encrypted data creating a smarter data package.

Qwantum Media has functions to handle pattern matching and conditional processing; and is smart enough, following rule sets, to look at data and determine what to do with the data and how many endpoints need the data; allowing for routing manipulation that is unmatched in the industry. The API allows your end points to be HTTP, XML, Internet, TCP, TLS, raw Byte stream, VPN and more. Anything our readers can read, via magnetic stripe, EMV chip, or NFC, can be encrypted and secured, with a variety of functions to manipulate the encrypted data.

Qwantum SaaS

Qwantum SaaS is a cloud-based Software-as-a-Service solution for securing, managing, storing, and transmitting sensitive data within the Qwantum network, and for providing multi-factor authentication login for Q-Cards and Cardholders. Qwantum SaaS services can provide enterprise data management, secure data storage, payment gateway, audit reports, and authentication services. These services can be bundled as turn-key solutions or customized as modules to provide the exact functionality to fit your business solution needs.

Contact Qwantum Media so we can show you how our solutions will protect your business and customers.