# SECURED & TRUSTED STORAGE

COMBINE THE ON-CHAIN & THE OFF-CHAIN SYSTEMS TO SECURELY PROCESSED AND STORED DATA

The FG Secured & Trusted Storage is composed by a Crypto Companion Database which stores and encrypts the main core of the data off-chain on the Cloud and stores the corresponding metadata and interactions-related data on-chain through the Blockchain Middleware and the Quorum Blokchain. By doing so, M-Sec couples the benefits of both the P2P and Cloud solution.

FEATURES

- **Encrypted Storage of sensitive data with asymmetric public/private key pair**

- **Automatic hash generation from the encrypted data**

- **Smart Contracts where to store transactions, hashes from data encrypted for data tamper proof reasons**

- **Data Access Control Authentication & Authorization mechanisms**
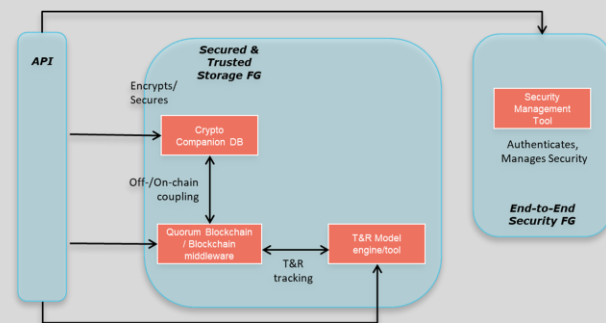
KEY BENEFITS

Data reliability

Data Privacy Enhancing

Only Authorized and Authentified users can access to data

Data integrity

Anonymity is maintained

Scalable

SYSTEM REQUIREMENTS

3 vCPU* and 6 GB of memory

The OS can be Linux or Windows.

*vCPU: 1 = One thread of a Intel Xeon 3,3MHz

DID YOU KNOW?

"By combining traditional off-chain for data storage with new techniques that have arisen recently thanks to the capabilities of blockchain for on-chain data storage, M-Sec secured & trusted storage functional group provides a high security level integrity and reliability of the data itself, being compliance with the general data protection regulation (GDPR) and the Act on Protection of Personal Information (APPI)."