



Silent Shard

State of the Art Digital Asset Custody
Solution for Financial Institutions



Case studies





Leading custody provider to institutions globally, BitGo integrated Silent Shard in their hot wallet

BitGo wanted to revamp their Digital Asset custody wallet with a modern, performant MPC protocol that works across different configurations and provides modularity to work with external backup partners.

Competitive edge

BitGo had the commercial scale to go with any vendor or build a solution with their in-house team. After a detailed and competitive review process they choose to partner with Silence Laboratories.



Superior MPC library performance (latency)



Configuration flexibility



Faster to market v/s own build



World class Team

Impact

5x

Faster to market

10x

Better TSS performance

Expanding relationship



2024

DKLs23 MPC library for ECDSA signatures with integration support



2025

Existing licenses renewal
EdDSA library license added
Pre-signature feature addition
Secure migration for large enterprise client



2026

Existing licenses renewed
New PQC license (planned)
Signature reveal feature (planned)

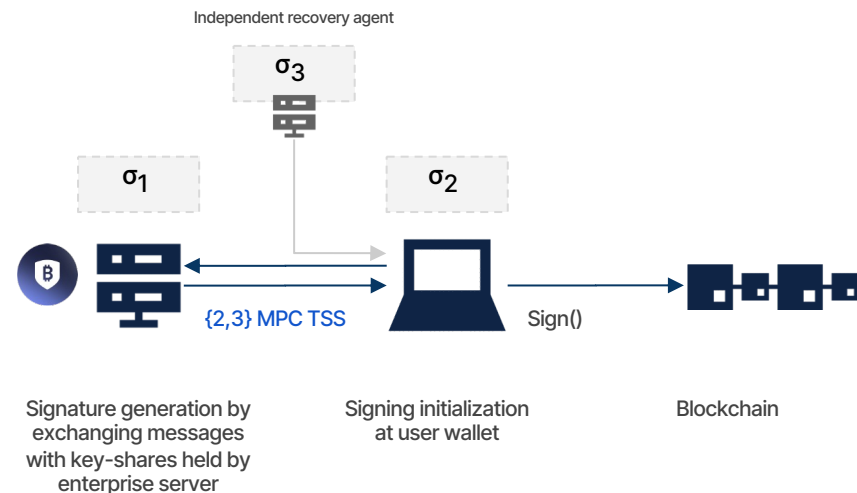
Institutional Custody: World's largest independent crypto custodian uses Silent Shard to power its platform

Construct 1: Hot Wallet

$\frac{2}{3}$ MPC, shards with user, BitGo (HSM) & independent recovery agent

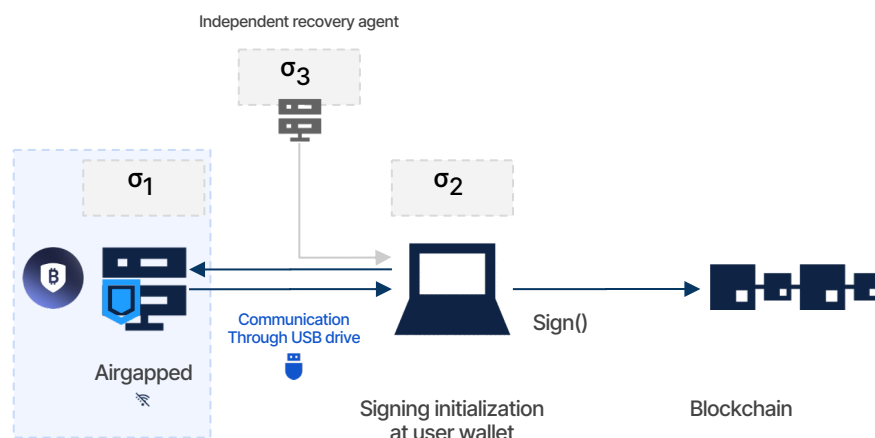
Key Challenge

Including custom BitGO HSM based shard in MPC network without significant adverse effect on latency.



Construct 2: Cold Wallets

MPC across end user device and air-gapped custom HSMs
not connected to external networks



Embedded Stablecoin Wallet: Top G-SIB adopts Silent Shard to power stablecoin settlement on their private chain

 Top 4 Global Bank

A top Global Systemically Important Bank (G-SIBs) built an embedded stablecoin wallet using Silent Shard

A top G-SIB, currently running its own private blockchain for intra-bank transactions wanted to offer embedded wallet solution to power stablecoin transactions between branches

Competitive edge

The Bank wanted an on-prem solution for key management with the flexibility to pull in partner organizations and even users to host shards in the future. Silent Shard was chosen.

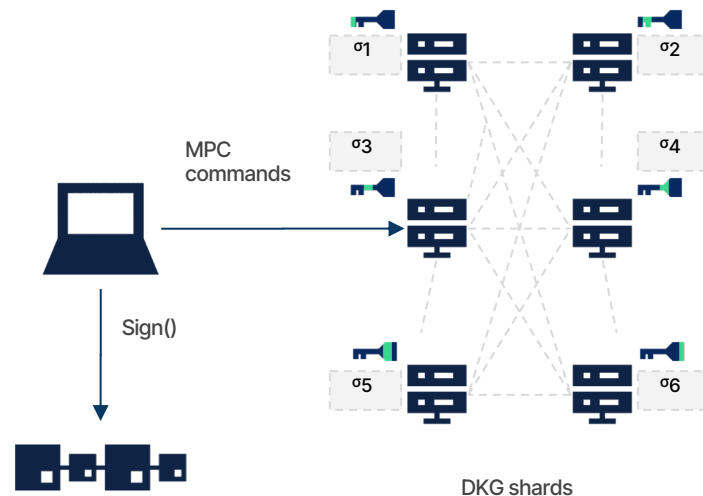
-  Flexibility in MPC network topology
-  Superior options for on-prem hosting shard
-  Full code access for internal audits
-  Future proof with Post-Quantum roadmap

Construct

Flexible n node MPC network, hosted and managed by the bank. Authorized personnel to initiate transactions from the network after authentication

Key Challenge

Seamless integration with bank private blockchain, strict security and internal control standards





One of the most popular retail MPC wallet wanted more secure key management without compromising user experience or non-custodial status

Competitive edge

Zengo did a detailed analysis of all MPC solutions in the market as well as a build vs buy comparison and chose Silent Shard.



Speed to market



MPC config flexibility with no dependence on Silence



Multiple recovery options for users



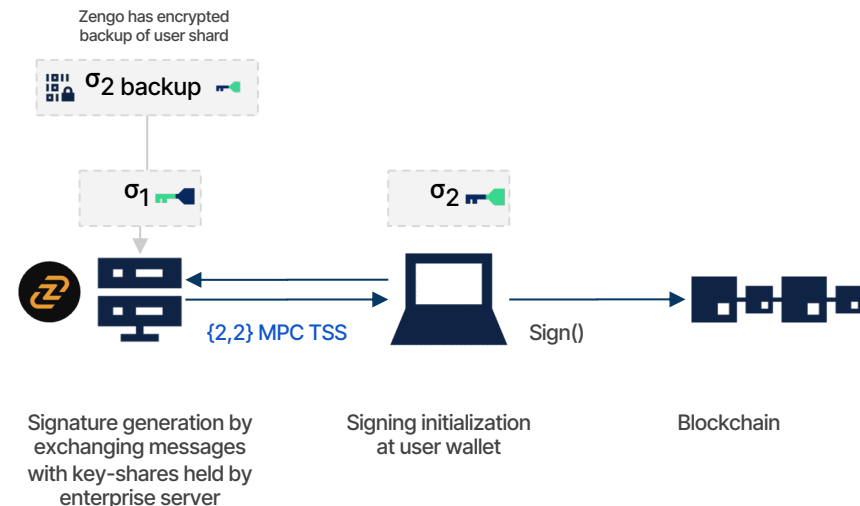
Code escrow for Business Process Continuity

Construct

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