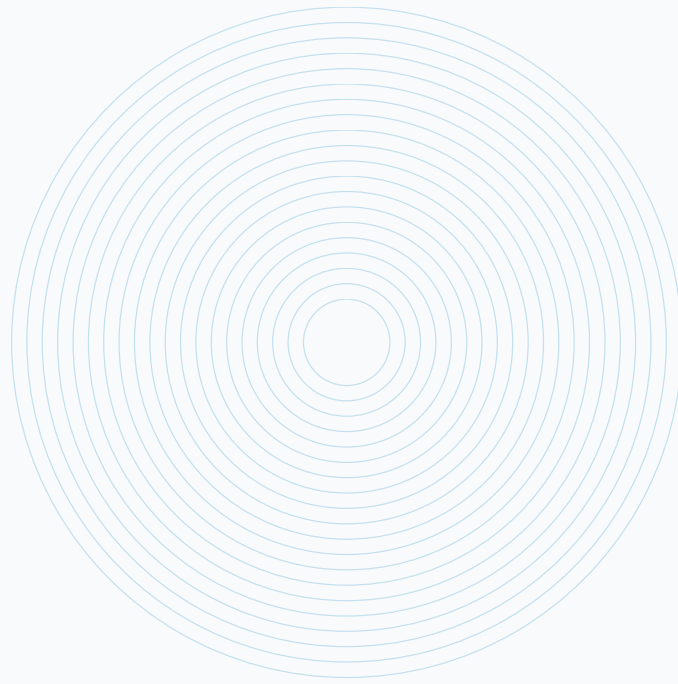




*The MetaMUI Institutional Brief*

# Fast *Facts*

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Quantum-Safe Identity-Based Settlement Infrastructure

Mainnet · Architecture · Migration · Institutional Record

Verify, don't trust.

01 · AT A GLANCE

# MetaMUI

Quantum-Safe Identity-Based Settlement Infrastructure

A post-quantum settlement network where the account is a decentralized identifier and the key is a credential registered against it. Moving from classical to post-quantum keys is a key registration, not an asset transfer: nothing moves.

- 1

Live on mainnet

Hard fork complete. Network in production and checkable on the public explorer.
- 2

Post-quantum across the stack

Falcon-512 covers transactions, identity operations and finality votes.
- 3

Migration without moving assets

The post-quantum key is registered against the same DID. Balance and address stay unchanged.
- 4

No personal data on-chain

The Identity Verifier holds personal data; the ledger records the verification outcome.
- 5

Secure in motion

Cross-chain approval combines independent cryptographic checks with a keyless protocol account.

MAINNET ROLE

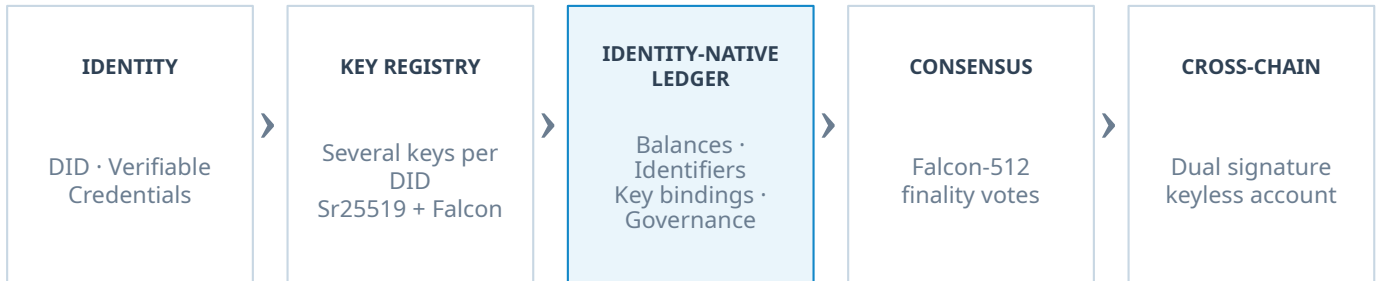
Settlement layer · Identity registry · Governance anchor

Designed for regulated value, attributable parties and deterministic finality.

02 · ARCHITECTURE

# Identity is the primitive, not an application layer

MetaMUI has been identity-based since 2021. That design made in-place post-quantum migration possible.



## DID as the account primitive

On many chains the identifier and public key assumption are tightly coupled. On MetaMUI the DID persists and keys are registered credentials. Key rotation becomes a state change instead of an asset migration.

## Identity-native ledger

Identifiers, key bindings, balances and governance share one state under one consensus. Rebinding and balances do not sit in separate systems that need reconciliation.

## Multi-key identity

One DID can hold several registered keys of different algorithms concurrently. Migration registers an additional key; recovery registers a replacement. The primitive is the same, the reason is different.

## TECHNICAL SNAPSHOT

Falcon-512 user + consensus signatures · DID account model · multi-algorithm verification · deterministic single-block finality

03 · MIGRATION

# Migration is a key registration, not an asset migration

Asset state remains unchanged. Only credential state changes.

**did:mmui:alice — identifier unchanged before, during and after**

BEFORE

DURING · one wallet unlock

AFTER

**Sr25519 key**  
authorizes



**Sr25519 + Falcon**  
both authorize



**Falcon-512 key**  
authorizes

**BALANCE — same ledger object · no transfer · no new address**

## 1 Unlock wallet

The existing Sr25519 key authorizes the action.

## 2 Register Falcon key

The wallet generates a Falcon-512 pair locally and registers the public key against the same DID.

## 3 Continue in place

The identifier and balance remain unchanged; future transactions use the post-quantum signature.

**No manual asset transfer · No new address · No migration destination**

04 · CONSENSUS & CROSS-CHAIN

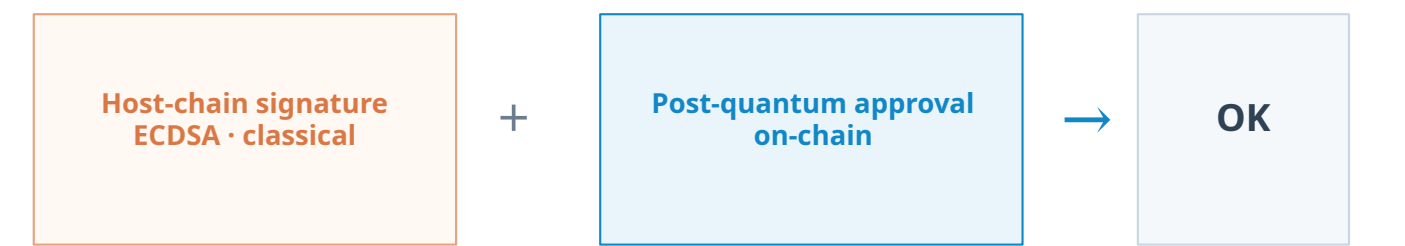
# Security is determined by what the verifier accepts

Post-quantum user signatures are not enough if consensus still accepts classical signatures. MetaMUI applies PQ signatures to both paths.

|                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Consensus</div><div>Validator set: registered, permissioned-public set</div><div>Finality: deterministic, single block</div><div>Vote signature: Falcon-512</div><div>Proposer selection: deterministic rotation</div><div>Measured finality: p50 ≈ 65 ms · p99 ≈ 524 ms</div></div> | <div><div>What the numbers mean</div><div>The published measurements show that post-quantum signing is not the bottleneck in the tested environment. They do not claim behavior under sustained load, geographic distribution or a much larger validator set.</div></div> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CROSS-CHAIN

Two cryptosystems on the classic side.  
No master key on ours.



KEYLESS PROTOCOL ACCOUNT

No single master key is held anywhere. Cross-chain approval depends on registered governance votes and independent cryptographic conditions.

05 · FOR INSTITUTIONS

# A completed system, not a construction kit

Issuance, identity, wallets and settlement are functions of a running platform.

## A partner builds

A branded wallet if needed, using the Wallet SDK.

An identity-verification capability that acts as the Identity Verifier and issues the credentials that bind keys to accounts.

## A partner does not replace

No new custom consensus.

No replacement of custody, HSM or treasury systems.

No new customer address format.

No separate customer migration step.

## FOUR WAYS IN

### 1 Settlement lane

Stablecoin issuers and payment providers add MetaMUI as another chain; value across it is quantum-safe by default.

### 2 Withdrawal network

An exchange adds MetaMUI as a destination into quantum-safe wallets while keeping its custody model.

### 3 Cross-chain protection

Assets on chains years from their own migration can be protected in transit without changing the origin chain.

### 4 Sovereign deployment

A dedicated instance for a central bank or regulated institution, with identity, issuance and governance under its control.

## VERIFY, DON'T TRUST: THE PATH IN

**Explorer and source review → demo network → scoped pilot → mainnet**

06 • INSTITUTIONAL TRACK RECORD

# Research, policy and real-world deployment

A concise view of the institutional record behind MetaMUI.



## BIS Innovation Hub

Project Polaris • 2023

Offline CBDC research and design. SWN Global participated in solution-vendor workshops; Seokgu Yun also contributed as an expert adviser.



## OMFIF Digital Monetary Institute

The Future of Payments • 2021

MetaMUI was listed among report contributors alongside Swift, Visa, JPMorgan, G+D and Algorand.



## Digital Euro Association

2022-2025

Public Digital Euro working-group contributions, current expert profile, and 2025 Member Spotlight on MetaMUI infrastructure.



## OECD Global Blockchain Policy Forum

2021

International policy-forum participation around blockchain infrastructure, digital identity and institutional use cases.

DIGITAL GEL  
2023

## National Bank of Georgia

Digital GEL • 2023

MetaMUI was one of nine providers shortlisted for the National Bank of Georgia's Digital GEL CBDC project.



## Sovereign Yidindji Government

2022-2026

Live sovereign digital-currency infrastructure used in the community, followed by a documented post-quantum migration transition.

07 · LIVE DEPLOYMENT → QUANTUM-SAFE MIGRATION

# From live financial infrastructure to quantum-safe infrastructure

A documented transition, not a laboratory-only migration.



PN123

**Public Notice**  
**Yidindji SSID & migration upgrade**  
Sunday the 20th day of September 2026

The Sovereign Yidindji Government under the authority of the Yidindji Tribal Council of Elders make known to the whole world that:

The Yidindji Tribal People now make known to the world that:

1. The Yidindji app is currently offline due to the decommissioning of the Sovereign Wallet Network (SWN)-MetaMUI servers supporting it. SWN-MetaMUI has transitioned to a new quantum-resistant blockchain system. Unfortunately, the Yidindji app cannot operate on the new infrastructure without significant system rebuilding and data migration.
2. We are actively assessing options to restore this service to the Nation. We sincerely apologise for this inconvenience, unfortunately this incident was beyond our control.
3. Our partnership with SWN-MetaMUI remains strong, and we look forward to negotiating a new service that delivers advanced wallet enhancements alongside its signature privacy, security, and scalability factors.
4. Individual account records have been impacted. However, all documented interactions remain secure during this transition. In the meantime, all Yidindji Chamber of Commerce (YCC) subscription reimbursements from September 2026 onwards are being carefully recorded and will be processed as soon as the new wallet becomes available.

By order: Yidindji Tribal Council of Elders





Sovereign Yidindji SSID Launch Event

2022

**Live deployment**  
Sovereign Yidindji Dollar (SYD) entered real-world use.

2022–2026

**Real-world use**  
Used across participating merchants in Queensland.

13 SEP 2026

**Quantum-Safe Mainnet**  
MetaMUI hard fork completed at block 35,499,408.

20 SEP 2026

**Official migration notice**  
Yidindji government publicly documented the need to rebuild/migrate the existing app for the new quantum-resistant infrastructure.

A live financial system moving to a quantum-safe blockchain.