Skye・Kiwi

Concealed Smart Contract Execution on Blockchain

The Programmable Privacy Predicament

Data Privacy

Smart Contract Execution

Programmability

Data Sharing

Front Running

Achieve Transparency with Privacy

Data Ownership

Unaddressed Market

Traceability

Identity Access

Data Encryption

SkyeKiwi Network

SkyeKiwi is building a privacy-first blockchain for confidential smart contract execution with interoperability and novel economic models of data ownership.
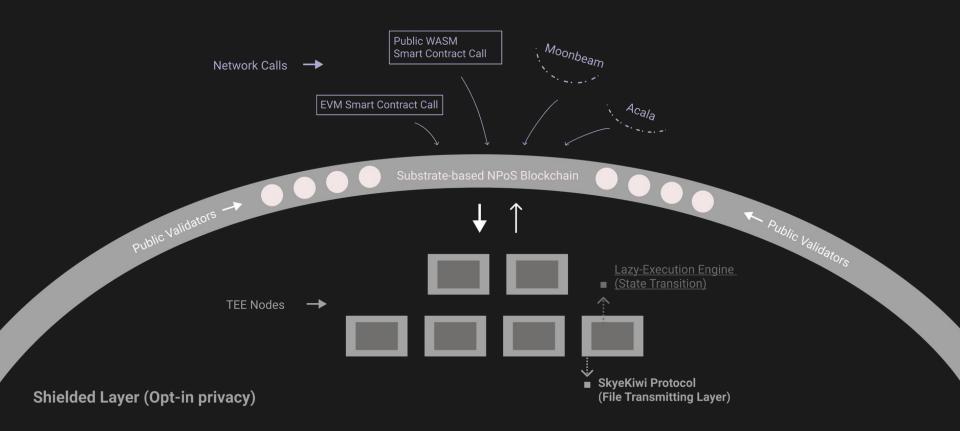
Built upon the SkyeKiwi Protocol - a generic & efficient secret sharing protocol

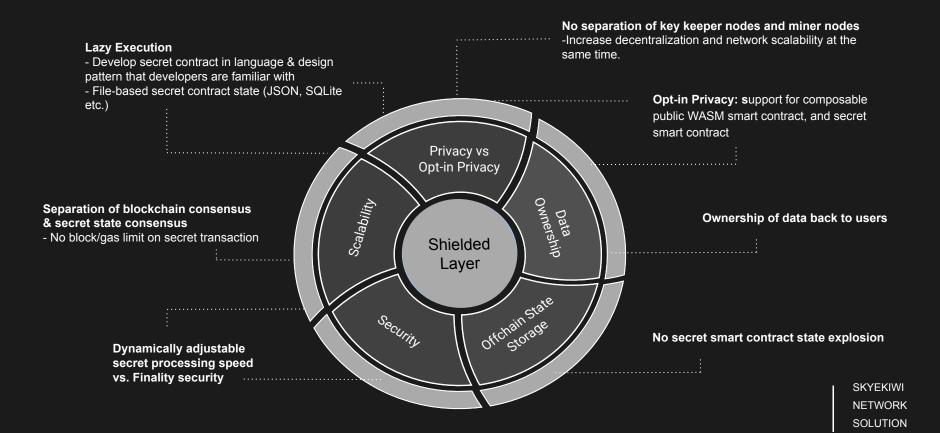Interoperable | Privacy | Data Ownership

SkyeKiwi Network Architecture

Unshielded Layer (Opt-out privacy)

Network Calls →

Public WASM
Smart Contract Call

Moonbeam

EVM Smart Contract Call

Acala

Substrate-based NPoS Blockchain

Public Validators →

← Public Validators

TEE Nodes →

Lazy-Execution Engine
(State Transition)

SkyeKiwi Protocol
(File Transmitting Layer)

Shielded Layer (Opt-in privacy)
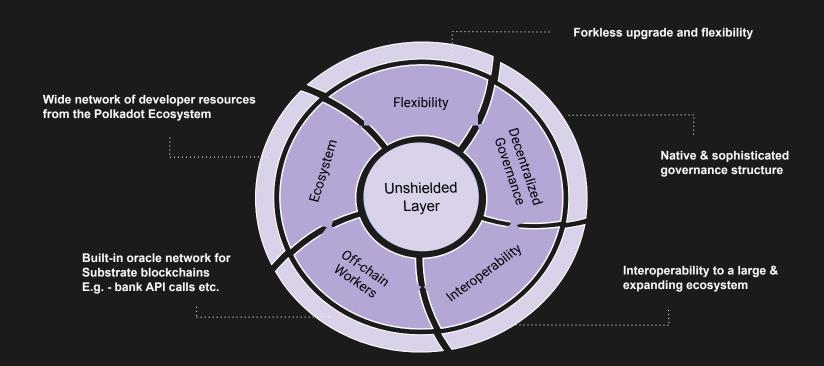
Why SkyeKiwi Network (Shielded Layer)

No separation of key keeper nodes and miner nodes
-Increase decentralization and network scalability at the same time.

Lazy Execution
- Develop secret contract in language & design pattern that developers are familiar with
- File-based secret contract state (JSON, SQLite etc.)

Opt-in Privacy: support for composable public WASM smart contract, and secret smart contract

Separation of blockchain consensus & secret state consensus
- No block/gas limit on secret transaction

Ownership of data back to users

Privacy vs
Opt-in Privacy

Scalability

Data
Ownership

Shielded
Layer

Security

Offchain State
Storage

Dynamically adjustable secret processing speed vs. Finality security

No secret smart contract state explosion

SKYEKIWI
NETWORK
SOLUTION

Why SkyeKiwi Network (Unshielded Layer)

Forkless upgrade and flexibility

Wide network of developer resources
from the Polkadot Ecosystem

Native & sophisticated
governance structure

Built-in oracle network for
Substrate blockchains
E.g. - bank API calls etc.

Interoperability to a large &
expanding ecosystem

Flexibility

Decentralized Governance

Ecosystem

Unshielded Layer

Off-chain Workers

Interoperability

In comparison with most other blockchains built with Cosmos SDK,
SkyeKiwi blockchain built on Substrate which brings in the extra features and flexibility

SKYEKIWI
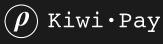NETWORK
SOLUTION
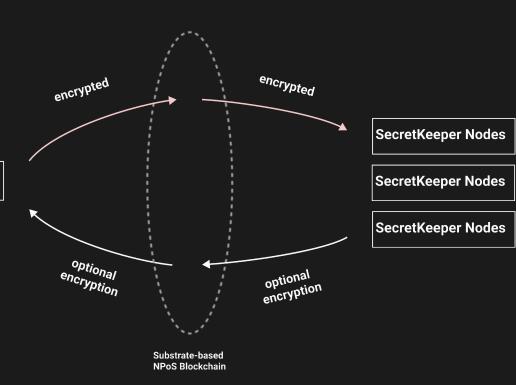
Why SkyeKiwi Network (End-user)

- Unified Secret Communication Protocol (SkyeKiwi Protocol)

- Optional Privacy for Transactions

encrypted

encrypted

SecretKeeper Nodes

End User's Machine

SecretKeeper Nodes

SecretKeeper Nodes

optional encryption

optional encryption

**Substrate-based
NPoS Blockchain**

Use Cases

The SkyeKiwi Protocol & The SkyeKiwi Network

ρ **Kiwi·Pay**
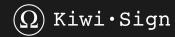
Launching By SkyeKiwi

Fiat Payment Processing
with Smart Contract

Composable "PayPal" on blockchain

Ω **Kiwi·Sign**

Launching By SkyeKiwi

Decentralized Contract Signature

Zero-Knowledge Proof of Agreement

Concealed Content NFT Platform

NFTs with content access controlled

DeFi Credit Score

Reputation System/Make DeFi more efficient

Ω Kiwi·Sign

Decentralized Contract Signature

Zero-Knowledge Proof-of-Agreement

Close to Zero Cost

KiwiSign will be close to free to use compare to $2 per contract pricing schema of centralized alternative.

Gateway to a Larger Landscape

KiwiSign will be the portal to settle real-world legally binding relationship in the native Web3.0 way.

Privacy-First

KiwiSign is powered by a minimalist 30-line of a Solidity smart contract.

We do not store recipient's information and have cryptography do the heavy lifting.

ρ Kiwi·Pay

Fiat Processing on Chain

Composable fiat payment infrastructure for Web3.0

First of Its Kind

Processing bank transactions through API calls is a well developed solution but putting the process on blockchain has been impossible until SkyeKiwi Network.

Composability

SkyeKiwi (in the Polkadot ecosystem) features interoperability. Contracts processing fiat currencies will provide new gateways to the ecosystem.

需求端不足？

- **Networking**

- **Storage**

- **Execution (CPUs & Memory)**

Networking & Storage

AWS, S3:

- Redundancy: Cross-Region Replication & Same Region Replication

- Storage: est. $23 per TB per Month

- API Calls: est. $0.005 per 1,000 Requests

- Data transfer: Ingress - Free; Egress - $90/TB - $50/TB

- Cross-Region Replication: applicable data egress cost

Blockchain based storage network:

- Redundancy: Automatic redundancy across regions

- Est. 1.7 nCRU/per MB per 180 days - about $0.0890188595 / TB / 180 days

- API Calls: est. $1.7089792 / 1000 requests to write. **Free** for data retrieval.

- Replication & Data Transfer: included in the storage cost

Execution

Bank API Provider - Plaid

- Started in 2013

- 5 Rounds of Investment; Latest Valuation at $~13B

- Tons and tons of privacy concerns/lawsuits

- Gigantic codebase

DAI

- Started in late 2017

- ~ 1000 Lines of Solidity code

- $8M Income for MakerDAO in March 2021

支付网络费用

- **新型共识引擎下供给充足**
- **DeFi Primitives**
- **Token持有者池（Capital Pool, Utility Pool, Speculative Pool）**

共识引擎 - 供给计算

- **中心化+ = TPS +**
- **Sharding**

DeFi + Capital Pool

- **SkyeKiwi Network 链下无共识情况下计算Gas**
- **Permanent Storage**

Contact Information

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FOR QUESTIONS OR COMMENTS

How KiwiPay Works?

■ End User

Digital Signature
(Collect $200)

Public Smart Contract on Acala

Merchant

Confirmation Signature

Collecting Fee with Signature
+ Service Fee Payment

Public Smart Contract on SkyeKiwi

Payment Auth/Relay

DONE (Signature)

Relay Request

Secret Contract on SkyeKiwi

Fiat Processing

Receipt

Authorization/Verify

Centralized API Provider

Bank API

■ End User

Card info +
Expiration in 6-mon.+
Authorize for up to $500 payment

Secret Contract on SkyeKiwi

Fiat Processing

Authorization/Verify

Centralized API Provider

Bank API