

HiddenPay

MINI WHITEPAPER (v10)



Invisible Subscription
Protocol for Web2 & Web3





HiddenPay



The Problem

Today's blockchain subscription systems expose sensitive metadata:

- Recurring payments create a visible monthly pattern.
- Merchant can see which wallet is paying.
- On-chain analytics can track history, timing, and frequency.

Introduction

HiddenPay is a next-generation privacy protocol designed for recurring payments and digital subscriptions. It enables fully anonymous subscription payments where no identity, wallet address, or transaction pattern can be traced solving a problem that no blockchain currently addresses:
invisible recurring payments.

HiddenPay ensures that users can subscribe, renew, pause, or cancel any subscription without ever creating a visible on-chain pattern.



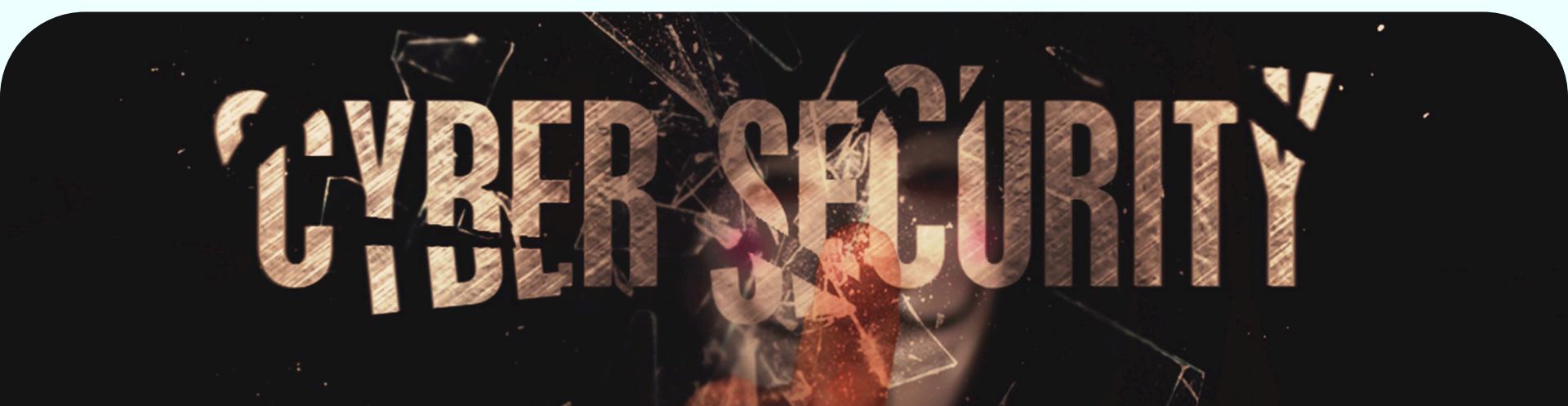
HiddenPay Solution

HiddenPay introduces the world's first Invisible Subscription Protocol, providing:

- Unlinkable recurring payments
- Zero-knowledge subscription verification
- Stealth address rotation for every cycle
- Randomized scheduling to eliminate monthly payment patterns
- Private time-lock payment channels
- No identifiable on-chain footprint

Subscriptions become mathematically untraceable even by the merchant.

Revolutionizing Payment



How HiddenPay Works



Private Funding Channel

Users deposit into a Private Time-Lock Channel, which is shielded and unlinkable.

Randomized Payment Release

HiddenPay releases subscription payments at unpredictable intervals, removing any monthly/weekly pattern.

Randomized Payment Release

Merchant receives funds through continuously rotating stealth addresses, preventing traceability.

Zero-Knowledge Subscription Proof (ZK-SP)

Users can prove they are an active subscriber without revealing:

- wallet
- deposit size
- payment timestamps
- identity

This is crucial for apps, SaaS, or gated Web3 services.

- Fully invisible recurring payments
- No wallet linking
- Untraceable settlement
- Private subscription verification (ZK-SP)
- Decentralized validator nodes
- Gas-efficient channel settlement
- Supports any merchant: SaaS, DApps, Web3 tools, media, memberships

Key Features



Token Utility (HDP)

The HDP token powers the HiddenPay ecosystem:



Collateral for Channels

Used for private channel bonding and anti-spam protection.

Reward Mechanism

Nodes earn HDP for maintaining privacy guarantees.

Automation

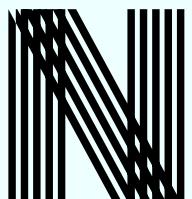
Paid in HDP for subscription routing and ZK-proof generation.

Node Staking

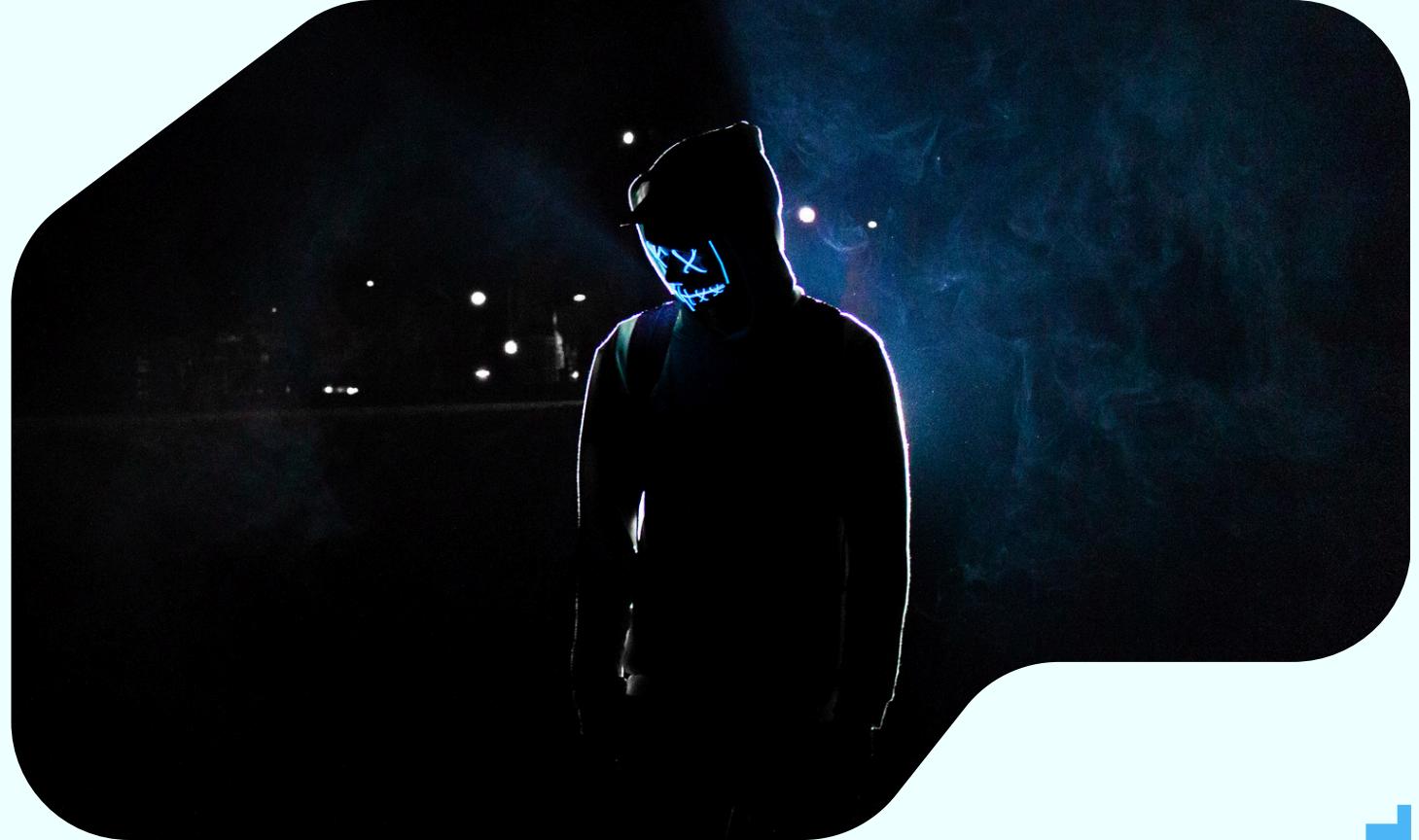
Validators stake HDP to operate the privacy routing network.

- Netflix/Spotify-style subscriptions with total anonymity
- Private SaaS memberships (AI tools, trading bots, dashboards)
- Anonymous donations with recurring support
- Web3 membership passes
- Private DeFi service fees
- SaaS platforms
- AI tools & API services
- VPN & privacy tools
- Storage subscriptions
- Web3 bots
- Exchanges
- Adult industry
- Gaming premium access

HiddenPay fits any system requiring ongoing access without exposing user identity.



Use Cases





Regulatory Considerations



No user data stored

No KYC required

Non-custodial system

Merchant does not see user identity

User does not see merchant identity

Protocol is fully decentralized and autonomous



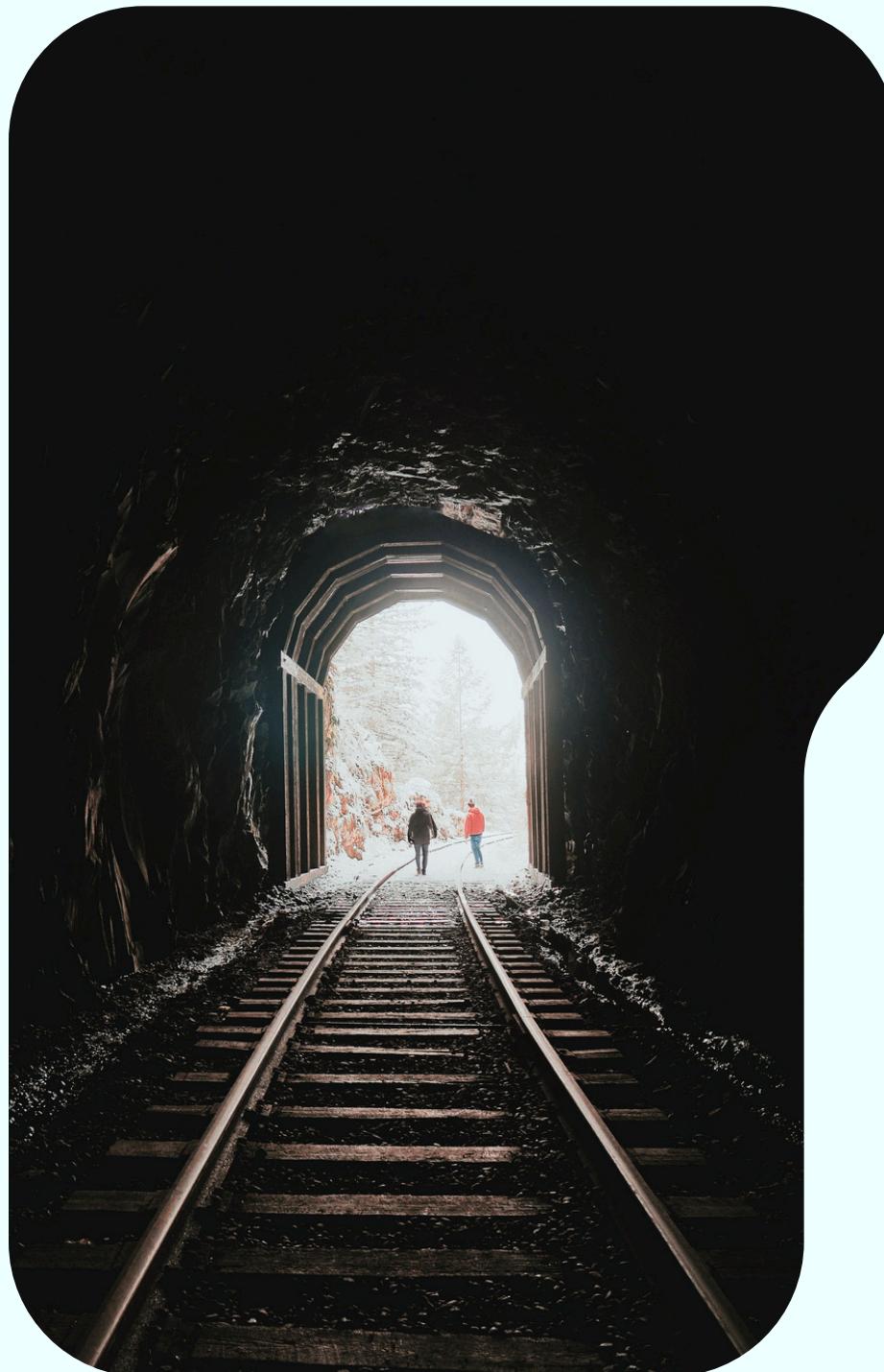
Future Frontiers of Innovation

Provide a realistic, technical roadmap:

- Phase 1: Research
- Phase 2: PTLC Implementation
- Phase 3: ZK-SP Circuit Development
- Phase 4: Merchant API + SDK
- Phase 5: Testnet Launch
- Phase 6: HPAY Token release
- Phase 7: Mainnet + Governance

What's Next for Hiddenpay?





Follow our future

HiddenPay introduces a new paradigm in crypto privacy the ability to subscribe without being seen.

By combining stealth payments, randomized timing, and zero-knowledge proofs, HiddenPay becomes the first protocol enabling truly invisible subscriptions in the Web3 economy.

Conclusion