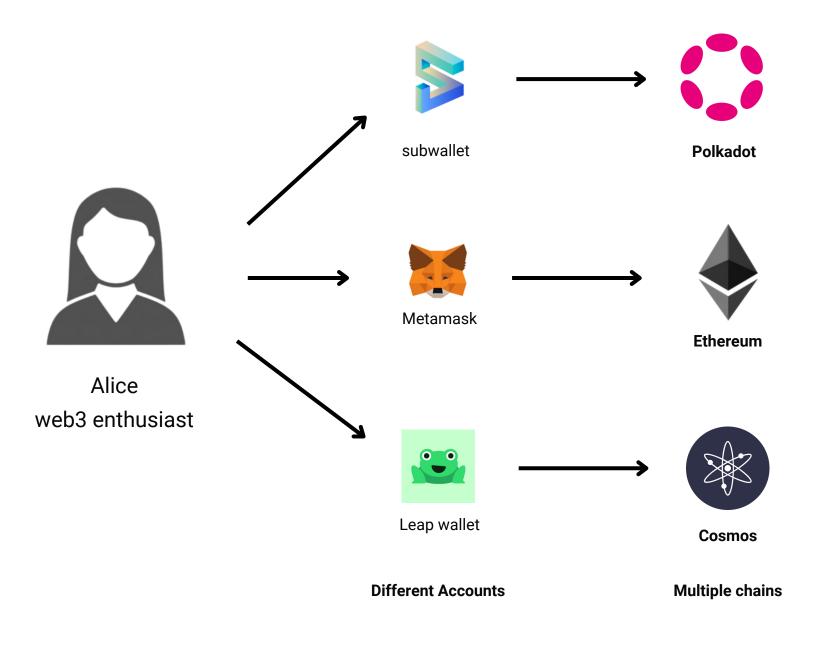


Xenon pallet

Stay connected with Xenon

Need





Issues

Multiple Identities

Alice has unique addresses on each network (e.g., Ethereum, Polkadot, Cosmos), leading to fragmented identities.

Complex Key Management

Each network uses different cryptographic keys, making it difficult for Alice to track which private key matches each blockchain.

Lack of Unified Control

Alice's identities are isolated on separate blockchains, limiting her ability to manage and confirm ownership across networks.

Inefficient Cross-Chain Applications

Alice has to verify her identity separately on each chain for cross-chain apps, adding extra steps and reducing convenience.

Xenon pallet?



Xenon pallet is a multichain Decentralized ID (DID) pallet created in polkadot solochain to help polkadot developers build cross-chain DApps and users to have all there identities at one place.

It has 3 key Functions



Supports multiple cryptographic standards

```
pub enum KeyType {
    Ed25519,
    Sr25519,
    Secp256k1,
    X25519,
}
```

Rigorous error handling

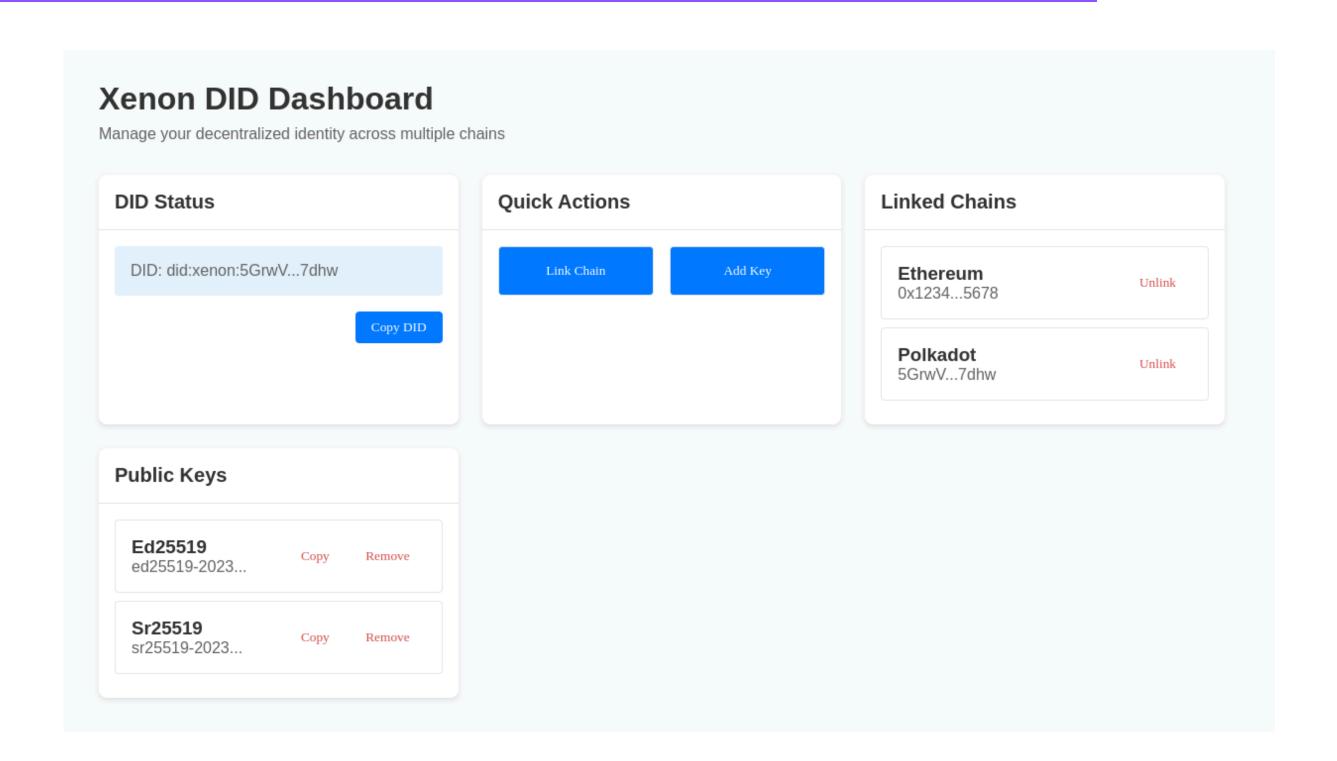
```
pub enum Error<T> {
    DidDocumentNotFound,
    DidDocumentAlreadyExists
    ChainAlreadyLinked,
    ChainNotLinked,
    TooManyLinkedChains,
    TooManyPublicKeys,
    TooManyServices,
    InvalidChainAddress,
    NotDocumentController,
}
```

How Xenon Pallet Solves Alice's Problems





- Create a central DID for identity management.
- Link public keys across different blockchains.
- Verify her identity across chains without logging into each platform.



How Developers Can Use Xenon Pallet





Onboarding

Simplified Onboarding

Developers can allow users to create a DID and authenticate once, simplifying the onboarding process across chains.



Cross-Chain Asset Access:

Build features that allow users to view and manage assets from multiple chains in one place.



Verification and Security:

Implement secure, multichain identity verification for sensitive dapp interactions.

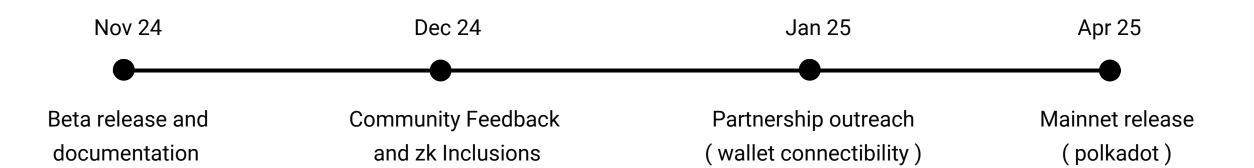
Possibilities and Road ahead



What can be build?

- Decentralized Account recovery
- Cross Chain Governance and DAOs
- Cross chain Asset management tool
- Unified Reputation system
- Cross Chain Identity verification in Dapps
- Multichain Loyalty programs.

Roadmap



Links

Dashboard demo - https://ni8crawler18.github.io/Xenon-pallet/

Github link - https://github.com/Ni8crawler18/Xenon-pallet

Developer docs - https://ni8crawlers-den.gitbook.io/xenon-pallet

Thank you