

Overview

MATTR π Wallet capabilities enable customers to build credential storage, holding and sharing functionality into their own applications.

They simplify creating encrypted storage, decentralised identifiers, handling OpenID credential issuance and creating verifiable presentations for credentials.

They also enable secure DID messaging to communicate with tenants that want to issue or verify credentials from a digital wallet.

Features

- Create and manage cryptographic key material and DIDs
- Collect credentials from issuers
- Present credentials to verifiers
- Support DID-based messaging
- Build a wallet or integrate core wallet capabilities into existing applications
- Use the same codebase for iOS and Android with React Native package
- Keep up to date with evolving standards with MATTR support

Functionality

Initialise a wallet – create a ‘wallet’ inside your existing applications to handle credential-related activities and manage DIDs. SDK

Manage secure storage – provision an encrypted data store and key management system. Store DIDs and credentials and expose functions to interact with them. SDK

Create a unique DID per interaction – generate a unique DID for each user to maintain privacy. SDK

Discover OpenID credential offer – parse and retrieve data about a credential offer and generate an OpenID authorization URL. SDK

Verify a credential – resolve remote contexts, validate credential data model schema and verify the signatures associated with the data. Cache public keys and contexts so that credentials can be verified offline. SDK

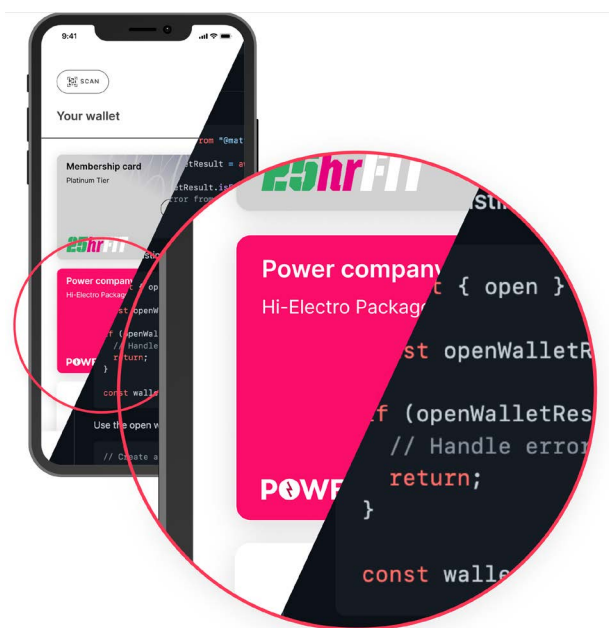
Process a presentation – parse and validate DIDComm messages for verification requests. Consume messages, verify their request and expose a presentation request back to the wallet. SDK

Look up credentials requested – find credentials from the wallet store that match the presentation request via QueryByExample or QueryByExample requests. SDK

Create and send presentations – build presentations with the requested credentials and send to the verifier via secure DID messaging. SDK

Manage a messaging inbox – provision an inbox for a wallet that stores messages such as credential offers, presentation requests and other DIDComm based messages. API

Send push notifications – notify users of incoming messages for registered DIDs via automated notifications. API



*MATTR π Wallet APIs and SDKs can be packaged to include some or all of this functionality. Contact us for more information on available packages.