API Datasheet

Blockchain Public Address

Simplify and enhance the transaction and ID processes within the web3 ecosystem for third-party users. Be able to establish a seamless connection between phone numbers and blockchain public addresses, offering a user-friendly, secure and efficient way to engage with blockchain-based transactions.

CHARACTERISTICS

- **Straightforward and efficient engagement in web3 transactions and IDs. No struggle with public addresses, use of phone as a convenient identifier.**
- **Top-notch security, accessibility, and privacy for Decentralized Identifiers (DIDs).**
- **Interoperability through a standardized solution that can be adopted by different operators and platforms.**

INDUSTRIES

SOCIAL & CUSTOMER ENGAGEMENT

FINANCIAL SERVICES & INSURANCES

ICT SERVICES

SERVICES

IDENTITY

PRODUCT FEATURES

- ❖ Ensures a safeguard for Decentralized Identifiers (DIDs), empowering web3 transactions with confidence
- ❖ Fast and efficient way to access blockchain public address information, saving development time and resources.
- ❖ Improved security by verifying phone number ownership to prevent unauthorized access, ensuring secure transactions.

BENEFITS

- ✓ Simplified transactions in the web3 environment and potential to increase adoption of blockchain services, generating greater user interest and participation.
- ✓ Effortless and user-friendly way to conduct transactions using phone numbers instead of complex blockchain addresses.
- ✓ Developer-friendly model, allowing to save valuable time and ensuring a reliable user experience.

POPULAR USE CASES

GAMING

MEDIA, ENTERTAINMENT & XR

Services: IDENTITY

(Read only) Gaming companies, with their unique in-game tokens and ecosystems, have a growing interest in integrating blockchain technology into their applications. By accessing public address information through the API, companies can unlock a range of possibilities. This allows player identification, with seamless interactions between the gaming world and blockchain, enable cross-game interaction and asset transfers.

DAOs

ALL

Services: IDENTITY

(Read only) DAOs often require access to public addresses on the blockchain to perform various read operations, such as verifying transactions and confirming ownership of digital assets. The Blockchain Public Address API offers a streamlined solution for DAOs to efficiently resolve public addresses, ensuring the smooth execution of their decentralized operations.

CRYPTO PLATFORMS

FINANCIAL SERVICES & INSURANCES

Services: IDENTITY

(Read and write) Cryptocurrency exchange platforms often face user experience challenges when it comes to facilitating secure and user-friendly transactions within the web3 ecosystem. The absence of seamless options for users to transfer assets between each other can lead to cumbersome and inefficient processes. The Blockchain Public Address API eliminates complex transactions and unnecessary friction.

WALLET PROVIDERS

FINANCIAL SERVICES & INSURANCES

Services: IDENTITY

(Read and write) Wallet providers, whether custodial or non-custodial, can benefit from integrating the Blockchain Public Address API into their services. By incorporating the API, wallet providers offer users a simplified way to associate their phone numbers with blockchain public addresses. This streamlines the user experience and makes cryptocurrency management more accessible.

GETTING STARTED WITH BLOCKCHAIN PUBLIC ADDRESS API

01 **CHOOSE A CHANNEL PARTNER**

Select a suitable channel partner or payment aggregator that offers integration with the Open Gateway API to meet your needs. Contact an expert to get more information about the channel partners availability or to become a new Telefónica Open Gateway Partner.

02 **DEVELOPER REGISTRATION**

To use Open Gateway Products, you must undergo a registration process that includes signing up on both the Channel Partner and Operator platforms.

03 **BLOCKCHAIN PUBLIC ADDRESS API CONSUMPTION**

After subscribing and sharing credentials, you can access the Open Gateway Product on registered Operators, making API calls through the Channel Partner's gateway.

04 **PRIVACY MANAGEMENT**

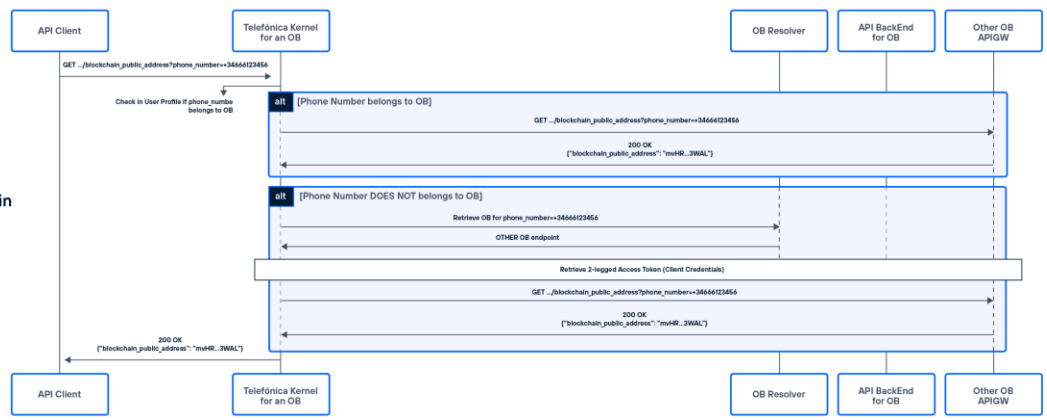
Some Open Gateway Products require end user consent to access Operator's network capabilities on their behalf.

PRODUCT SPECIFICATIONS

AUTHORIZATION	Pi-scopes: blockchain-public-address-create; blockchain-public-address-delete; blockchain-public-address-read
APLICABLE AUTHENTICATORS FOR ACQUIRING USER CONSENT	Under revision
API DOCUMENTATION	https://telefonica.github.io/opengateway-technical-documentation/blockchain-public-address/
INPUT PARAMETERS	header (x-correlator) **POST** /blockchain-public-addresses {"phoneNumber": "+346789990012","blockchainPublicAddress": "0x71C7656EC7ab88b098dafB451B2314C5f6d8932A","blockchain": "ethereum","currency": ["ETH"]} **GET** /blockchain-public-addresses phone_number
SERVICE RESPONSE	**POST** response: {"id": "90c626ce-5284-4a84-b85e-46e0ee3d0434"} **GET** response: {"id": "90c626ce-5284-4a84-b85e-46e0ee3d0434","blockchainPublicAddress": "0x71C7656EC7ab88b098dafB451B2314C5f6d8932A","blockchain": "ethereum", "currency": ["ETH"]}

EXAMPLE USER FLOW

Retrieve BlockChain Public Address



FURTHER INFORMATION

Join the **Telefónica Open Gateway Developer Hub** to test our API, develop use cases and improve user experiences.

If you are interested in the potential of Telefónica Open Gateway initiative and you are willing to collaborate with us, **access our Partner Program.**

For further questions about the initiative **contact our experts.**