



Open Gateway

Overview, use cases and case studies on the Blockchain Public Address API

Telefónica Open Gateway

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Description



01

Make web3 transactions and IDs simpler and more secure than ever before!

The primary objective of the "Blockchain Public Address" API is to simplify and enhance the transaction process within the web3 ecosystem for third-party users. This involves establishing a seamless connection between phone numbers and blockchain public addresses, offering a user-friendly, secure and efficient way to engage with blockchain-based transactions.

To achieve this goal, the CAMARA API leverages the capabilities of wallets, which are responsible for generating and securely storing Decentralized Identifiers (DIDs).

Features and Categorization

CAMARA	
COUNTRIES	
SECTORS	<p>SOCIAL & CUSTOMER ENGAGEMENT</p> <p>ICT SERVICES</p> <p>FINANCIAL SERVICES & INSURANCES</p>
SERVICES	IDENTITY



Characteristics

02

Overview

Characteristics of Blockchain Public Address



Simplify and Empower Web3 Transactions and IDs

Say goodbye to the hassle of dealing with lengthy and cryptic blockchain addresses. Our API bridges the gap between phone numbers and blockchain public addresses, offering you a straightforward and efficient way to engage in web3 transactions. No more struggling with alphanumeric strings – just use your phone number as a convenient identifier.

Securely storing Decentralized Identifiers (DIDs)

Safeguard your Decentralized Identifiers (DIDs) with our API. We ensure top-notch security, accessibility, and privacy for your DIDs, empowering your web3 transactions with confidence

Interoperability

Promotes interoperability by offering a standardized solution that can be adopted by different operators and platforms, facilitating collaboration and the expansion of API usage.

Overview

Characteristics of Blockchain Public Address



Web3 Growth Potential

By simplifying transactions in the web3 environment, the API has the potential to increase adoption of blockchain services, generating greater user interest and participation.

Streamlines Transactions

Enables third parties to provide their users with a simpler and user-friendly way to conduct transactions using phone numbers instead of complex blockchain addresses..

Enhanced Dev Experience

The standardized Blockchain Public Address API from CAMARA promotes a developer-friendly model, This approach not only saves valuable time and effort but also ensures a consistent and reliable user experience. Developers can focus on creating innovative solutions without the complexities of operator-specific implementations, thereby accelerating time-to-market and fostering a more efficient development ecosystem.

Use Cases

03

Overview / Use Cases (Read only)

Gaming Companies Leveraging Blockchain Public Address

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 "Blockchain Public Address" API, these gaming companies can unlock a range of possibilities to enhance the gaming experience for their users.

- Player Identification: Gaming companies can utilize the API to associate players' in-game profiles with their blockchain public addresses. This linkage allows for seamless interactions between the gaming world and the blockchain.
- Enable cross-game interactions and asset transfers..



<p>OTHER RELATED APIs</p> <p>Number Verification</p>	<p>SECTOR</p>	<p>MEDIA, ENTERTAINMENT & XR</p>	<p>DEVELOPER NEEDS</p> <ul style="list-style-type: none"> • User-Centric Approach: It enables gaming companies to focus on the user experience by providing a simpler and more secure way to manage digital assets in the game linked to phone numbers. • Efficient Access to Relevant Data: The API offers a fast and efficient way to access blockchain public address information, saving development time and resources. • Interoperability Across Multiple Operators: The API ensures seamless interaction with phone numbers from various mobile operators within the CAMARA ecosystem. This enables gaming companies to reach a diverse user base, expand globally, and enhance user experiences worldwide.
<p>SERVICE</p>	<p>IDENTITY</p>		

Overview / Use Cases (Read only)

Decentralized Autonomous Organizations (DAOs)

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.

Problematic:

- **Complex Address Resolution:** DAOs often encounter difficulties when trying to resolve public addresses on the blockchain. The traditional process involves handling lengthy alphanumeric addresses, leading to potential errors, confusion, and inefficiencies.
- **Accessibility Barriers:** The need for technical expertise to handle blockchain addresses can exclude less tech-savvy individuals from participating in the web3 ecosystem, limiting its growth potential.



OTHER RELATED APIs

Number Verification

SECTOR

ALL

SERVICE

IDENTITY

DEVELOPER NEEDS

- **Enhanced Decentralization:** By providing a user-friendly way to interact with blockchain data, the API empowers DAOs to maintain and strengthen their decentralized governance structures.
- **Efficient Blockchain Operations:** The API simplifies the process of accessing and resolving public addresses of members on the blockchain, making it easier for DAOs to manage transactions and assets efficiently.

Overview / Use Cases (read & write)

Cryptocurrency Exchange Platforms

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. This issue becomes especially apparent when users need to share complex blockchain addresses or are required to meet physically to exchange QR codes.

Current problematic:

- **Complex Transactions:** Traditional blockchain transactions necessitate the use of lengthy alphanumeric addresses, causing confusion and errors among users. The complexity of these addresses can hinder the adoption of blockchain-based services.
- **In-Person Exchange:** To conduct transactions securely, users often resort to physically meeting and sharing QR codes or public keys. This not only limits accessibility but also introduces unnecessary friction into the process.



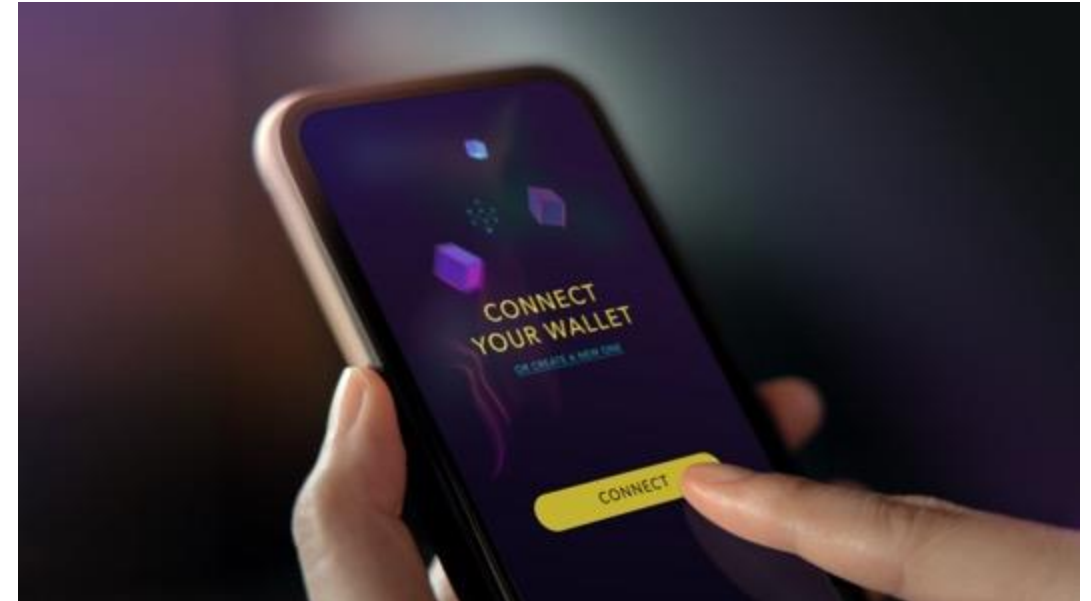
<p>OTHER RELATED APIs</p> <p>Number Verification</p>	<p>SECTOR</p> <p>FINANCIAL SERVICES & INSURANCES</p>	<p>DEVELOPER NEEDS</p> <ul style="list-style-type: none"> • Enhanced User Experience: Simplify cryptocurrency transactions for your users by associating phone numbers with blockchain addresses. • Improved Security: Verify phone number ownership to prevent unauthorized access, ensuring secure transactions. • Interoperability: Offer a standardized solution that works seamlessly with various operators and platforms.
	<p>SERVICE</p> <p>IDENTITY</p>	

Overview / Use Cases (read & write)

Wallet providers

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.



<p>OTHER RELATED APIs</p> <p>SIM Swap</p>	<p>SECTOR</p>	<p>FINANCIAL SERVICES & INSURANCES</p>	<p>DEVELOPER NEEDS</p> <ul style="list-style-type: none"> Enhanced User Experience: Simplify cryptocurrency transactions for your users by associating phone numbers with blockchain addresses. Improved Security: Verify phone number ownership to prevent unauthorized access, ensuring secure transactions. Interoperability: Offer a standardized solution that works seamlessly with various operators and platforms.
<p>SERVICE</p>	<p>IDENTITY</p>		

Case Studies

COMING SOON

04

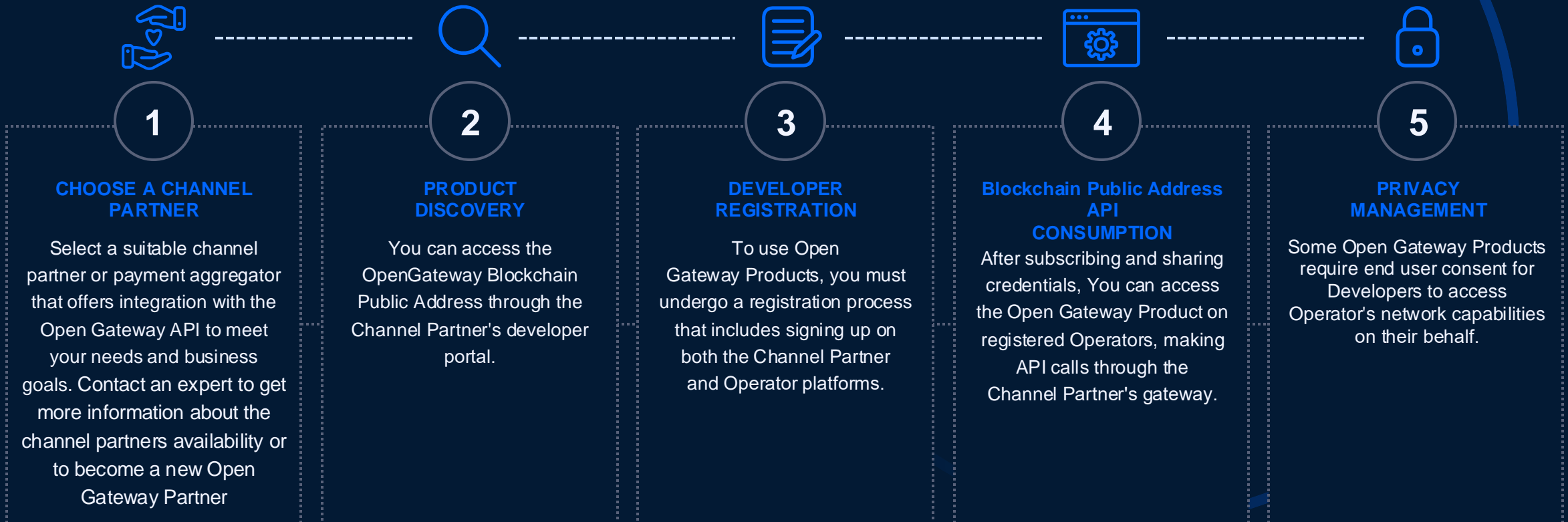
Getting Started

05

Getting Started with Blockchain Public Address API

Harness the power of Open Gateway and seamlessly integrate our API services into your app

Follow these initial steps for seamless API services to Developers within Channel Partners' environments, including Operators API Services integration for a cohesive product experience and efficient collaboration among stakeholders.



Documentation

06

Official Blockchain Public Address CAMARA API Documentation

Over CAMARA

CAMARA is an open-source project within Linux Foundation to define, develop and test the APIs. CAMARA works in close collaboration with the GSMA Operator Platform Group to align API requirements and publish API definitions and APIs. Harmonization of APIs is achieved through fast and agile created working code with developer-friendly documentation. API definitions and reference implementations are free to use (Apache2.0 license).

Camara is supported by:



Meetings

- Regular Virtual Meetings
- Bi-weekly on Thursdays
- 13:00 - 14:00 CET/CEST



Contributor ship & Mailing List

✓ [Subscribe](#)



Camara (Subproject)

✓ [CAMARA Blockchain Public Address](#)

FAQs

07

API Blockchain Public Address / FAQs

What is the CAMARA Blockchain Public Address API?

The "Blockchain Public Address" API is an application programming interface that simplifies the association of phone numbers with blockchain public addresses, thus streamlining transactions in the web3 ecosystem.

What does it mean that the API is CAMARA-standardized?

CAMARA, the open-source project led by the Linux Foundation in collaboration with the GSMA, aims to universalise network APIs under the same standards for all telecommunications companies.

What are the benefits of using the Blockchain Public Address API?

The API simplifies and streamlines transactions within the web3 and blockchain ecosystem. It provides an intuitive way to use phone numbers instead of complex blockchain addresses, making transactions easier for users. It bridges the gap between traditional telecom services and the decentralized world of blockchain.

In which use cases can the Blockchain Public Address API be applied?

The Blockchain Public Address API caters to two main categories of use cases. Read-only access suits gaming companies, DAOs, and native web3 companies needing to access public address information. On the other hand, read and write access is intended for telecommunications companies, wallet providers, cryptocurrency exchange platforms, and other enterprises aiming to offer blockchain services, perform both read and write operations, and enable diverse blockchain-based applications and services.

Can DAOs use this API for read operations on the blockchain?

Yes, DAOs can leverage this API to resolve public addresses and perform read operations on the blockchain, facilitating decision-making and governance.

API Blockchain Public Address / FAQs

What is the primary objective of this API in terms of end users?

The primary objective is to simplify and enhance the end user experience by facilitating transactions in the web3 ecosystem through the seamless association of phone numbers and blockchain public addresses.

How is interoperability ensured among different telecommunications operators?

The API provides a standardized solution that enables interoperability among telecommunications operators, facilitating collaboration and shared usage.

Can wallet providers use this API for write relations between MSISDN and Blockchain public address?

Yes, wallet providers can utilize the Blockchain Public Address API to establish and manage associations between MSISDN (phone numbers) and blockchain public addresses. This enables them to perform write operations to facilitate user transactions and interactions within the blockchain ecosystem.

How do I determine which type of access (read-only or read-and-write) I need for my specific use case?

The choice of access type will depend on the requirements and functionality of your application or service. If you only need to retrieve existing information, read-only access (GET) may be sufficient. On the other hand, if you wish to make modifications to data or create new records, you will require read-and-write access (POST). Evaluate the needs of your use case and consult with our experts to determine the appropriate level of access.

**Further
Information**

08

Further information

Join our Developer Hub

Join the [Telefónica Open Gateway Developer Hub](#) to test our APIs, develop use cases with the power of the network and improve user experiences.

Enroll our Partner Program

If you are interested in the potential of Telefónica Open Gateway and you are willing to collaborate with us, you can [enroll our exclusive Partner Program](#).

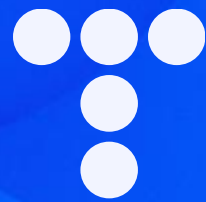
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Contact our experts

If you have any questions about the initiative, don't hesitate to [contact our experts](#).





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