

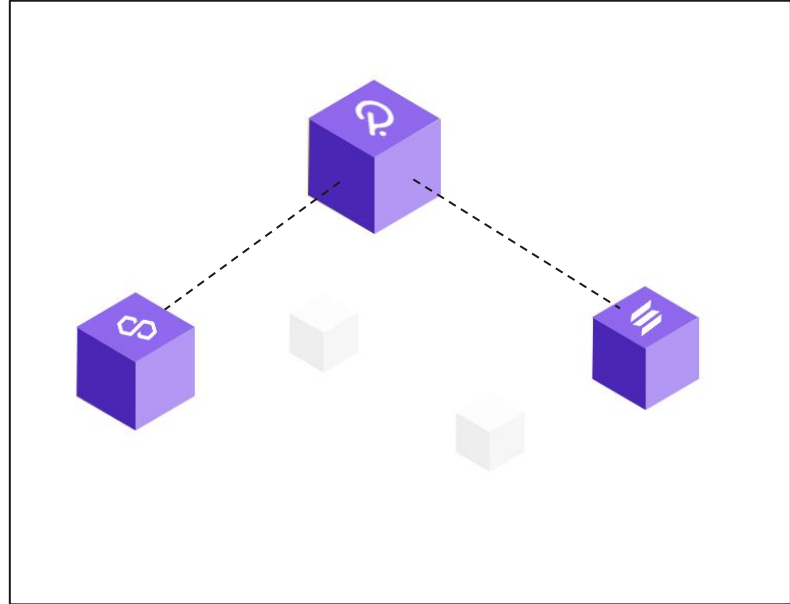


# AmaraLink

Crypto data conversion hub connecting Polkadot and other public chains

# About AmaraLink

- AmaraLink is a cross-chain bridge deployed on Moonriver, aiming to be the conversion hub connecting Polkadot and other popular public chains.
- The first step towards Polkadot for AmaraLink is to connect Moonriver with Polygon.
- AmaraLink ensures a safe and stable assets transfer from other public chains to Moonriver and vice versa.



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## Features of AmaraLink

First, in terms of mechanism, at the beginning of the design of Maralink, we restricted the data in the cross-chain bridge contract. To be specific, there is a limit on the flow of cross-chain data on a daily basis. It is designed to guarantee the security of data to the greatest degree on mechanism level, so the data locked in the entire cross-chain bridge protocol have a limited quantity, thus reducing the risk of hacker attacks.

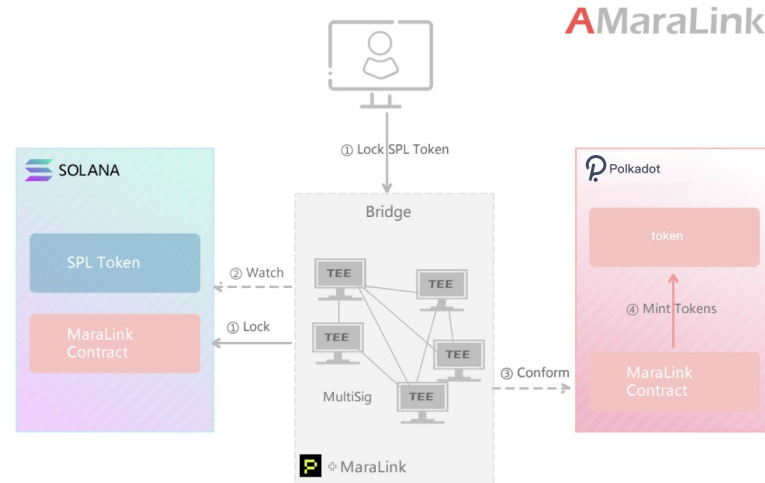
Second, in terms of technology, we adopted multi-signature technology to verify each flow of data on the premise of guaranteeing cross-chain experience, so the security level of the cross-chain bridge is greatly improved.

Third, MaraLink supports up to 200 verifiers for nomination, adding more verifiers is an effective way to avoid the situation that a single administrator misconduct. At the same time, through the DRAND consensus random algorithm, the main verifier of each transaction is selected to collect the signatures of other verifiers, which improves the verification efficiency. Moreover, in order to improve efficiency and ensure security in the meantime, the signatures collected by the main verifier will be verified again through back-sign, thus avoiding the situation of the main verifier's misconduct.

# AmaraLink Operating Process

## 2 From SOL (SPL standard) to MOVR (ERC20 standard)

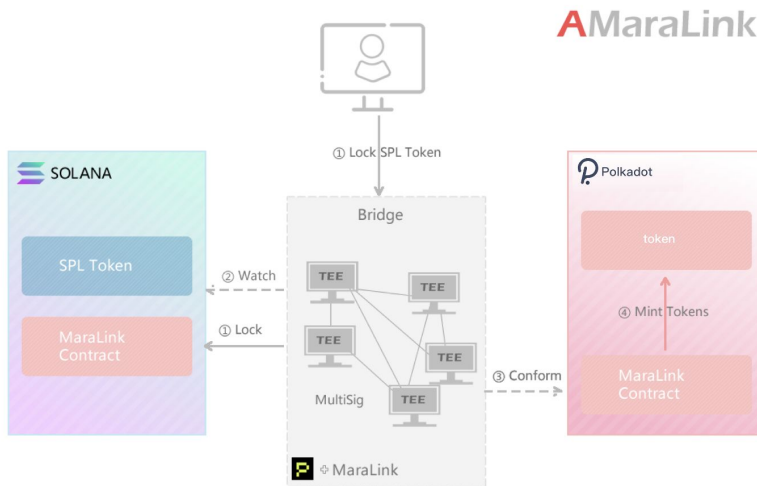
- a ) The user calls the AmaraLink contract on Moonriver public chain, and then the marked contract asset MOVR (ERC20) burns.
- b ) The verifier collects the on-chain transaction results and uses the private key to sign the transaction results based on TEE trusted computing
- c ) Broadcast the results
- d ) The signature verification network collects no less than t signature results and verifies the authenticity
- e ) AmaraLink unlocks SOL (SPL standard) assets to users.



# AmaraLink Operating Process

## 1 From SOL (SPL standard) to MOVR (ERC20 standard)

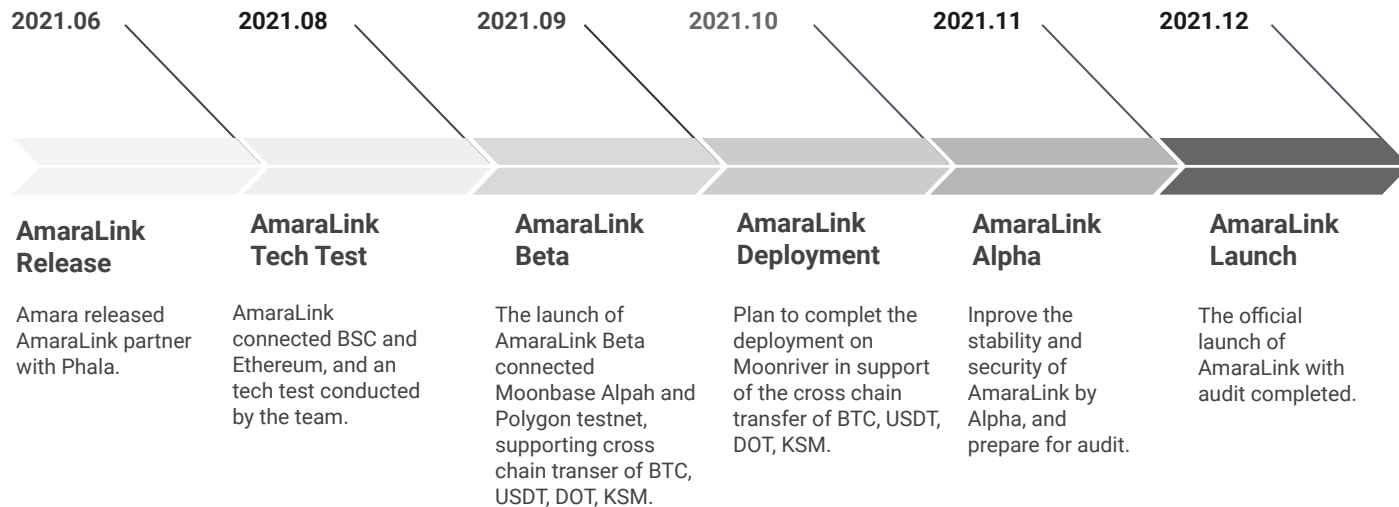
- a ) The user deposits SPL Token and locks it
- b ) The verifier collects the on-chain transaction results and uses the private key to sign the transaction results based on TEE trusted computing
- c ) Broadcast the results
- d ) The signature verification network collects no less than t signature results and verifies the authenticity
- e ) Generate the corresponding 1:1 mapping Token in the Moonriver network



以SOLANA为例

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## AmaraLink Progress



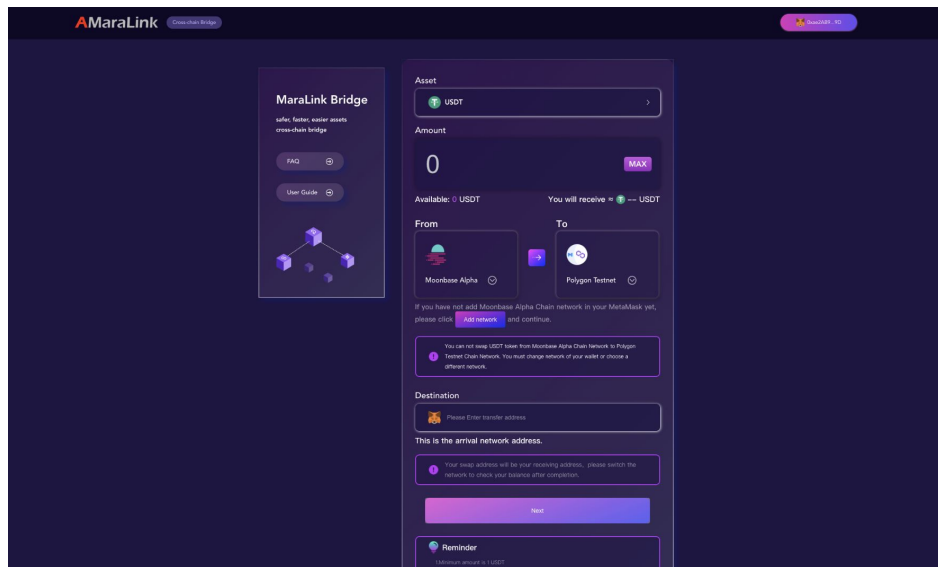
# AmaraLink Beta

**Website :**

<https://bridge.amara.link/#/>

**Github:**

<https://github.com/AmaraFinance/maralink-node>



# AmaraLink beta data

Demo video | CN



Product doc. | CN



Product doc. | EN

