

Q&A

Differences with other cross-chain solution?

Most recent solutions deal with cross-chain by building one trustable adapter for each pair of chains. One popular adapter can be the inter-chain that consists of fully replicated nodes running the same consensus protocol. In comparison, Pallet bridges one chain with others through a decoupled, light-weight, meta-level smart contract layer. The consensus is reached among the Jurors selected before the contract execution. Having one Jury for one contract boosts the scalability. We do not want to use one (inter-)chain for all contracts. Our shared contract states among Jurors address all chains.

Which blockchain does pallet support?

Many new blockchains are forked from Bitcoin and Ethereum. We are starting with Bitcoin and Ethereum, and then move to other popular blockchains as soon as possible.

How do you prevent collusion in Pallet?

We focus on protecting each participant from being harmed by malicious Jurors. In the beginning each Juror deposits a stake into the arbiter contract. If participants doubt the result from contract execution, participants can invoke an arbiter contract to verify the result. The arbiter contract can request the genesis Jury to verify the contract. If the result is invalid, the stake of the Juror will be confiscated and given to the contract participants.



Beyond Yet Another Chain:
IP Protocol for Future Internet of Values

What is Pallet?

PALLET

Pallet allows inter-chain transactions by decoupling contracts from blockchains. Instead of forcing all contracts onto one chain, Pallet offers a Jury per contract, and hence the scalability.

Security: Pallet stake mechanism minimizes rogueness through proper rewards and penalties in the ecosystem.

Bitcoin

Most widely used cryptocurrency

ZCash

Provide enhanced privacy by using zero knowledge proof

Ethereum

A cryptocurrency featuring smart contract

How to use PALLETT?

Exchange

Traditionally, we need to rely on centralized exchanges to ensure we can exchange safely. Using Pallet contract, you can build your own exchange. Exchange your bitcoin, ethereum, etc with others safely.

Litecoin
Refined from Bitcoin

Decentralized Asset Management

Pallet has a scalable and decoupled smart contract. Different DApps will not interfere with each other. People don't need to worry about high transaction fees or low TPS (transaction/s).

Bitcoin
Most widely used coin

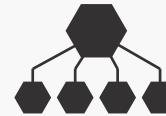
Contracts for ICO

Pallet is versatile in deploying a contract for your Initial Coin Offering. Pallet smart contract can receive tokens from BTC, ETH, and tokens from any supported chain.

ZCash
With enhanced privacy

Ethereum
Smart contract

PALLET Features



ABOVE & BEYOND BLOCKCHAINs

Pallet decouples contract execution from underlying blockchains. Contracts are executed on the decoupled contract verifiers, called Jury, which keeps the contract states.



HIGHLY PARALLEL

One Jury per contract, instead of one blockchain for all contracts. Different Pallet contracts run independently.



SECURITY

Pallet consensus protocol uses stake mechanism to incentivize good behaviors and punish scams. Also, Pallet utilizes LLVM-family tools such as compile-time analyses and runtime sanitizers to catch errors and threats in contract execution.



PRODUCTIVITY FOR CONTRACT DEVELOPERS

Pallet supports simplified popular languages and outputs LLVM bitcodes. Writing a contract is less error-prone, thanks to restricted yet familiar language frontends.