General Overview

We introduce a share system by which users can stake MATIC whenever they pleased, with the vault auto-compounding their rewards thereby increasing yields and reducing gas.

The staking vault offers users a reliable way of staking MATIC on the Ethereum network. It is highly flexible and enables fully customisable staking and unstaking according to your personal schedule. On staking MATIC via the vault, users receive a receipt in the form of the TruMATIC token (which is ERC-20). In addition, each user (the *distributor*) can opt to send **some or all of the rewards** from staking MATIC to another user or wallet address (the *recipient*).

This additional functionality of allocating staking rewards to a third party can be described by three core functions within our smart contract architecture:

- `allocate` adds an amount of MATIC, distributor, recipient and the current share price to the list of allocations.

- `deallocate` updates the list of allocations, indexed by the distributor and the recipient. This function is also used to remove allocations by setting the deallocation amount to the total allocated amount

- `distribute` then distributes the rewards from an allocation to the corresponding beneficiary/recipient.