PMA Token Contract

Introduction

The PMA token contract is an ERC20 contract. It is the native token of the PumaPay system.

Contract version

pragma solidity 0.8.0

Contract constructor

In this contract the constructor() method is used to initialize the PMA token.

Method Name:

- constructor

Method Usage:

- The constructor method initializes the PMA token contract and sets the registry address.
- This constructor assigns the default admin role, pauser role and minter role to the deployer.
- Minter role allows the user to mint the PMA tokens.
- Pauser role allows the user to pause the PMA token transfers.

Method Signature:

- constructor(address registryAddress, string memory name, string memory symbol)

Method Parameters:

1. **registryAddress:**
   - indicates the address of the registry contract which keeps the record of all the contract addresses in the ecosystem.
2. **name:**
   - Indicates the name of the PMA token contract.
3. **Symbol:**
   - Indicates the Symbol of the PMA token contract.

Contract Methods

mint()

Method name:

- mint

Method detail:

- This method allows anyone with the minter role to mint the specified amount of PMA tokens to specific users.
- This method creates the new PMA tokens.

Method signature:

- function mint(address to, uint256 amount) public virtual;

Method parameters:

1. **to:**
   Indicates the address of the user to whom PMA tokens will be minted.
2. **amount:**
   Indicates the amount of PMA tokens to mint to users.

Returned data:

- This method returns nothing.

burn()

Method name:

- burn

Method detail:

- The burn method allows PMA token holders to burn their tokens.
- The burn method destroys the PMA token from the user`s account.

Method signature:

- function burn(address from, uint256 amount) public virtual;

Method parameters:

- **from:**
  - Indicates the PMA token holder address whose tokens to be burned.
- **amount:**
  - Indicates the amount of PMA tokens to burn from a user`s account.

Returned data:

- This method returns nothing.

pause()

Method name:

- pause

Method detail:

- The pause method allows users with the PAUSER role to pause the PMA token transfer.

Method signature:

- function pause() public virtual;

Method parameters:

- This method does not have any parameters.

Returned data:

- This method returns nothing.

unpause()

Method name:

- unpause

Method detail:

- The unpause method allows users with the PAUSER role to unpause the PMA token transfer.

Method signature:

- function unpause() public virtual;

Method parameters:

- This method does not have any parameters.

Returned data:

- This method returns nothing.