InsuranceFund

- Source code
- Deployed contract
- LIP-18

The Lido Insurance Fund is a vault contract that serves as a simple transparent store for funds allocated for self-insurance purposes.

Mechanics

The Insurance Fund is a simple vault that inherits OpenZeppelin'sOwnable and allows the owner to transfer ether, ERC20, ERC721, ERC1155 tokens from the contract. The owner, which will the Lido DAO Agent, can transfer ownership to another entity with an exception ofzero address .

View methods

owner()

Returns the currentowner .

function

owner ( )

public

view

returns

(address) ;

renounceOwnership()

Reverts always.

function

renounceOwnership ( )

public

pure override ;

Methods

transferERC1155()

Transfer a single ERC1155 token with the specified id in the specified amount to an entity from the contract balance. A contract recipient must implementERC1155TokenReceiver in accordance toEIP-1155 in order to safely receive tokens.

- reverts ifmsg.sender
- is notowner
- ;
- reverts if_recipient
- is zero address;
- reverts if the contract balance is insufficient;
- emitsERC721Transferred(address indexed _token, address indexed _recipient, uint256 _tokenId, bytes _data)
- .

function

transferERC1155 (address _token ,

address _recipient ,

uint256 _tokenId ,

uint256 _amount ,

bytes

calldata _data)

external ;

Parameters

Name Type Description _token address an ERC1155 token _recipient address recipient entity _tokenId uint256 token identifier _amount uint256 transfer amount _data bytes byte sequence foronERC1155Received hook info Note:transferERC1155 does not support multi-token batch transfers.

transferERC20()

Transfer an ERC20 token to an entity in the specified amount from the contract balance.

- reverts ifmsg.sender
- is notowner
- ;
- reverts if_recipient
- is zero address;
- reverts if the contract balance is insufficient;
- emitsERC20Transferred(address indexed _token, address indexed _recipient, uint256 _amount)
- .

function

transferERC20 (address _token ,

address _recipient ,

uint256 _amount)

external ;

Parameters

Name Type Description _token address an ERC20 token _recipient address recipient entity _amount uint256 transfer amount

transferERC721()

Transfer a single ERC721 token with the specified id to an entity from the contract balance. A contract recipient must implementERC721TokenReceiver in accordance toEIP-721 in order to safely receive tokens.

- reverts ifmsg.sender
- is notowner
- ;
- reverts if_recipient
- is zero address;
- emitsERC721Transferred(address indexed _token, address indexed _recipient, uint256 _tokenId, bytes _data)
- .

function

transferERC721 (address _token ,

address _recipient ,

uint256 _tokenId ,

bytes

memory _data)

external ;

Parameters

Name Type Description _token address an ERC721 token _recipient address recipient entity _tokenId uint256 token identifier _data bytes byte sequence foronERC721Received hook

transferEther()

Transfers ether to an entity from the contract balance.

- reverts ifmsg.sender
- is notowner
- ;
- reverts if_recipient
- is zero address;
- reverts if the contract balance is insufficient;
- reverts if the actual transfer OP fails (e.g._recipient
- is a contract with no fallback);
- emitsEtherTransferred(address indexed _recipient, uint256 _amount)
- .

function

transferEther (address _recipient ,

uint256 _amount)

external ;

Parameters

Name Type Description _recipient address recipient entity _amount uint256 transfer amount

transferOwnership()

AssignsnewOwner as theowner .

- reverts ifmsg.sender
- is notowner
- ;
- reverts ifnewOwner
- is zero address;
- emitsemit OwnershipTransferred(address indexed previousOwner, address indexed newOwner)
- .

function

transferOwnership (address newOwner)

public ;

Parameters

Name Type Description newOwner address entity which will have access to all state-mutating operationsEdit this page
Previous GateSeal Next OssifiableProxy