TRP VestingEscrow

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- Deployed Contracts (goerli+prater)* <u>VestingEscrowFactory</u>
 - VestingEscrowProto
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- Detailed contracts spec

Token Reward Program (TRP) escrow contracts allow transparent on-chain distribution and vesting of the token rewards for the Lido DAO contributors.

VestingEscrowFactory

Public variables

· voting_adapter: address

address of the VotingAdapter used in the vestings

owner: address

factory and vestings owner

· manager: address

vestings manager

View methods

target()

Returns immutableTARGET

@external @view def target() -> uint256

token()

Returns immutableTOKEN

@external @view def token() -> uint256

Methods

deploy_vesting_contract()

note Before callingdeploy_vesting_contract() caller need to have enough tokens on the balance and callapprove(vestingFactoryAddress, fundAmount) on the token contract Deploy and fund a new instance of theVestingEscrow for the givenrecipient . Set all params for the deployed escrow. Returns address of the deployed escrow

@external def deploy_vesting_contract(amount: uint256, recipient: address, vesting_duration: uint256, vesting_start: uint256 = block.timestamp, cliff_length: uint256 = 0, is_fully_revokable: bool = False) -> address

Parameters

Name Type Description amount uint256 Amount of the tokens to be controlled by vesting recipient address Recipient of the vested funds vesting_duration uint256 Vesting duration in seconds vesting_start uint256 Vesting start time in seconds (unix time in sec) cliff_length uint256 Cliff duration in seconds is_fully_revokable bool Flag that enablesrevoke_all method note Reverts if any of the following is true:

• vesting_duration <= 0

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- cliff length >= vesting duration
- · token transfer from caller to factory fails
- · approve of the tokens to the actual vesting fails

recover_erc20()

Collect ERC20 tokens from the contract to theowner.

@external def recover_erc20(token: address, amount: uint256)

Parameters

Name Type Description token address Address of ERC20 token to recover amount uint256 Amount of the tokens to recover note Reverts if:

- · tokens transfer toowner
- fails

recover_ether()

Collect all ether from the contract to theowner.

@external def recover_ether() note Reverts if:

- · Ether transfer toowner
- fails

update_voting_adapter()

Setself.voting_adapter tovoting_adapter .

@external def update_voting_adapter(voting_adapter: address)

Parameters

Name Type Description voting_adapter address New voting adapter note Reverts if:

- called by anyone exceptVestingEscrowFactory
- owner

change owner()

Setself.owner toowner.

@external def change_owner(owner: address)

Parameters

Name Type Description owner address Newowner address note Reverts if:

- called by anyone exceptVestingEscrowFactory
- owner
- argowner
- · is empty address

change manager()

Setself.manager tomanager.

@external def change manager(manager: address)

Parameters

Name Type Description manager address Newmanager address note Reverts if:

- · called by anyone exceptVestingEscrowFactory
- owner

VestingEscrow

Public variables

· recipient: address

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- address that can claim tokens from escrow
- · token: ERC20

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- address of the vested token
- start time: uint256

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- vesting start time (UTC time in UNIX seconds)
- end time: uint256

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- vesting end time (UTC time in UNIX seconds)
- cliff_length: uint256

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- o cliff length in seconds
- · factory: IVestingEscrowFactory

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- address of the parent factory
- total locked: uint256

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- total amount of the tokens to be vested (does not change after claims)
- is fully revokable: bool

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- flag showing if the escrow is fully revocable or not
- total claimed: uint256

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- total amount of the claimed tokens
- disabled at: uint256

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- effective vesting end time (UTC time in UNIX seconds). Can differ from end_time in case of the revoke_xxx methods call
- initialized: bool

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- · flag indicating that escrow was initialized
- · is_fully_revoked: bool
 - o flag indicating that escrow was fully revoked and there are no more tokens

View methods

unclaimed()

Returns the current amount of the tokens available for the claim.

@external @view def unclaimed() -> uint256

locked()

Returns the current amount of the tokens locked.

@external @view def locked() -> uint256

Methods

claim()

Claim tokens to thebeneficiary address. If the requested amount is larger thanunclaimed, then theunclaimed amount will be claimed.

Returns actual amount of the tokens claimed.

@external def claim(beneficiary: address = msg.sender, amount: uint256 = max_value(uint256))

Parameters

Name Type Description beneficiary address Address to claim tokens to amount uint256 Amount of the tokens to claim note Reverts if:

- · called by anyone except vestingrecipient
- · tokens transfer tobeneficiary
- fails

revoke_unvested()

Disable further flow of tokens and revoke the unvested part to the owner.

@external def revoke_unvested() note Reverts if:

- called by anyone exceptVestingEscrowFactory
- · owner or manager
- tokens transfer toVestingEscrowFactory.owner()
- fails

revoke_all()

Disable further flow of tokens and revoke all tokens to the owner.

@external def revoke_all() note Reverts if:

- is fully revocable
- · param of the Vesting Escrow
- · is not True
- called by anyone exceptVestingEscrowFactory
- owner
- · tokens transfer to Vesting Escrow Factory.owner
- fails

recover erc20()

Collect ERC20 tokens from the contract to therecipient .

@external def recover_erc20(token: address, amount: uint256)

Parameters

Name Type Description token address Address of ERC20 token to recover amount uint256 Amount of the tokens to recover note Reverts if:

- · tokens transfer torecipient
- fails

recover_ether()

Collect all ether from the contract to therecipient .

@external def recover ether() note Reverts if:

- Ether transfer torecipient
- fails

aragon_vote()

Participate in the Aragon vote using all available tokens on the contract's balance. UsesdelegateCall toVotingAdapter .VotingAdapter address is fetched fromself.factory .

@external def aragon_vote(abi_encoded_params: Bytes[1000])

Parameters

Name Type Description abi_encoded_params Bytes[1000] ABI encoded params for thevote method call. can be compiled usingVotingAdapter.encode_aragon_vote_calldata note Reverts if:

· called by anyone except vestingrecipient

snapshot_set_delegate()

Delegate Snapshot voting power of all available tokens on the contract's balance todelegate . UsesdelegateCall toVotingAdapter .VotingAdapter address is fetched fromself.factory .

@external def snapshot_set_delegate(abi_encoded_params: Bytes[1000])

Parameters

Name Type Description abi_encoded_params Bytes[1000] ABI encoded params for the delegate method call. can be compiled using Voting Adapter. encode snapshot set delegate call data note Reverts if:

· called by anyone except vestingrecipient

delegate()

note Stub at the moment of writing Delegate voting power of all available tokens on the contract's balance todelegate . UsesdelegateCall to VotingAdapter.VotingAdapter address is fetched fromself.factory .

@external def delegate(abi_encoded_params: Bytes[1000])

Parameters

Name Type Description abi_encoded_params Bytes[1000] ABI encoded params for thevote method call. can be compiled usingVotingAdapter.encode_delegate_calldata note Reverts if:

· called by anyone except vestingrecipient

VotingAdapter

Public variables

owner: address

votingAdapter owner

View methods

encode_aragon_vote_calldata()

Returns abi encoded params for thearagon_vote call.

@external @view def encode_aragon_vote_calldata(voteld: uint256, supports: bool) -> Bytes[1000]

Parameters

Name Type Description voteld uint256 Aragon vote id amount bool Supports flag. True - for, False - against

encode_snapshot_set_delegate_calldata()

Returns abi encoded params for the snapshot set delegate call.

@external @view def encode snapshot set delegate calldata(delegate: address) -> Bytes[1000]

Parameters

Name Type Description delegate address Address to delegate snapshot voting power to

encode_delegate_calldata()

Returns abi encoded params for the delegate call.

@external @view def encode_delegate_calldata(delegate: address) -> Bytes[1000]

Parameters

Name Type Description delegate address Address to delegate voting power to

Methods

aragon_vote()

Participate in the Aragon vote using all available tokens on the contract's balance. It makes sense only for delegateCalls, so the caller's balance will be used. UsesVOTING CONTRACT ADDR as the voting contract address.

@external def aragon vote(abi encoded params: Bytes[1000])

Parameters

Name Type Description abi_encoded_params Bytes[1000] ABI encoded params for thevote method call. can be compiled usingVotingAdapter.encode_aragon_vote_calldata note Reverts if:

· called by anyone except vestingrecipient

snapshot_set_delegate()

Delegate Snapshot voting power of all available tokens. Makes sense only for delegateCalls so that the balance of the caller will be used. UsesSNAPSHOT_DELEGATE_CONTRACT_ADDR as the voting contract address.

@external def snapshot_set_delegate(abi_encoded_params: Bytes[1000])

Parameters

Name Type Description abi_encoded_params Bytes[1000] ABI encoded params for the delegate method call. can be compiled using Voting Adapter. encode snapshot set delegate calldata note Reverts if:

· called by anyone except vestingrecipient

delegate()

note Stub at the moment of writing Stub for the future implementation of the Voting with Delegation.

@external def delegate(abi_encoded_params: Bytes[1000])

Parameters

Name Type Description abi_encoded_params Bytes[1000] ABI encoded params for thevote method call. can be compiled usingVotingAdapter.encode_delegate_calldata note Always reverts

recover_erc20()

Collect ERC20 tokens from the contract to theowner.

@external def recover_erc20(token: address, amount: uint256)

Parameters

Name Type Description token address Address of ERC20 token to recover amount uint256 Amount of the tokens to recover note Reverts if:

- · tokens transfer toowner
- fails

recover_ether()

Collect all ether from the contract to theowner.

@external def recover_ether() note Reverts if:

- · Ether transfer toowner
- fails

change_owner()

Setself.owner toowner

@external def change_owner(owner: address)

Parameters

Name Type Description owner address Newowner address note Reverts if:

- called by anyone exceptVotingAdapter
- owner
- argowner
- is empty address Edit this page Previous MevBoostRelayAllowedList Next GateSeal