

ChangeStake - 1.0.0

Summary

This contract is a companion contract to the main stake contract. It ensures the stake is changed correctly following the rules. For asset and register descriptions see Stake State. Partial unstake of governance tokens is not allowed because with delayed staking rewards this will result in a penalty for unstaking.

Parameters

Parameter	Description	Type	Default
imPaideiaDaoKey	Token ID of the dao config nft	Coll[Byte]	

Registers

Register	Description	Type
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Assets

Token name	amount
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Transactions

Transaction name	Transaction description
ChangeStake	In this transaction the stake of a DAO member is increased or secondary profit is removed

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Context Variables

CV Index	Type	Description
0	Coll[Byte]	Proof for retrieving current DAO Config values
1	Coll[(Coll[Byte],Coll[Byte])]	Stake operations to be performed
2	Coll[Byte]	Proof for performing the stake operations

Config

Config key	Type	Description
im.paideia.contracts.staking.changestake	PaideiaContractSignature	Signature of the change stake contract
im.paideia.staking.state.tokenid	Coll[Byte]	Token ID of this DAO's stake state token

Inputs

Utxo type	Description
StakeState	The utxo containing the staking state

ChangeStake	The utxo ensuring proper execution of changing the stake
User	User UTXO containing the stake key and enough erg to perform the action

Data Inputs

Utxo type	Description
DAO Config	Config utxo of this DAO

Outputs

Utxo type	Description
StakeState	The utxo containing the updated staking state
ChangeStake	A copy of the input utxo
Miner	Miner fee
User	User UTXO containing the stake key and any leftover assets

Conditions

1. DAO Config input is correct
2. Stake state input is correct
3. Stake key is part of the input
4. Staked token amounts are correct in the output
5. Only one operation is performed on the stake state
6. The digest of the new stake state is correct
7. Erg profit is valid
8. Correct change stake copy is in output
9. Register values not relevant to this action in the stake state are unchanged
10. No partial unstake of governance tokens is performed