

# StakeProfitShare - latest

## Summary

This contract is a companion contract to the main stake contract. It ensures profit is properly updated according to the shared profit.

## Parameters

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

## Registers

Register	Description	Type
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## Assets

Token name	amount
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## Transactions

Transaction name	Transaction description
StakeCompound	In this transaction 1 or more SplitProfit boxes are handled by splitting them between the treasury and the stake state

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## Context Variables

CV Index	Type	Description
0	Coll[Byte]	Proof for retrieving current DAO Config values

## Config

Config key	Type	Description
im.paideia.contracts.staking.profitshare	PaideiaContractSignature	Signature of the stake profitshare contract

## Inputs

Utxo type	Description
StakeState	The utxo containing the staking state
StakeCompound	The utxo ensuring proper execution of calculating the compound

## Data Inputs

Utxo type	Description
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DAO Config	Config utxo of this DAO
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## Outputs

Utxo type	Description
StakeState	The utxo containing the updated staking state
StakeCompound	A copy of the input utxo
Miner	Miner fee

## Conditions

1. DAO Config input is correct
2. Stake state input is correct
3. The rewards provided in the update operations match expectations
4. Staked token amounts are correct in the output
5. Snapshot is updated correctly by removing handled stakers
6. New stake state AVLTree digest matches expectations
7. Stake compound is copied into new utxo
8. Prevent spam attack by ensuring a minimum amount of stakers is handled, or this is the last batch of stakers to be handled
9. The current profit in the stake state is updated according to distributed profit
10. Register values not relevant to this action in the stake state are unchanged