

Waygu Staker Contract

Methods

BEACON_CHAIN_DEPOSIT_CONTRACT

function

BEACON_CHAIN_DEPOSIT_CONTRACT () external

view

returns (contract IBeaconDepositContract) The Canonical Address of the BeaconChainDepositContract

Returns

Name	Type	Description
_0	contract IBeaconDepositContract	undefined

VALIDATOR_DEPOSIT_SIZE

function

VALIDATOR_DEPOSIT_SIZE () external

view

returns (uint256) Validator deposit size.

Returns

Name	Type	Description
_0	uint256	undefined

addAdmin

function

addAdmin (address newAdmin) external

nonpayable addAdmin() function allows an admin to add a new admin to the contract.

This function is only accessible to the existing admins and requires the address of the new admin. If the new admin is already set, the function will revert. Otherwise, the adminsCounter will be incremented and the new admin will be added to the admins mapping. An AdminAdded event will be emitted.

Parameters

Name	Type	Description
newAdmin	address	undefined

addOperator

function

addOperator (address newOperator) external

nonpayable Adds a new operator to the list of operators

Only the admin can add a new operator

Parameters

Name	Type	Description
newOperator	address	The address of the new operator

admins

function

admins (address) external

view

returns (bool)

Parameters

Name	Type	Description
_0	address	undefined

Returns

Name	Type	Description
_0	bool	undefined

batchMigrate

function

batchMigrate (IStakingModule . ValidatorData [] batchData) external

nonpayable

Parameters

Name	Type	Description
batchData	IStakingModule.ValidatorData[]	undefined

deleteAdmin

function

deleteAdmin (address oldAdmin) external

nonpayable Deletes an admin from the list of admins.

Only admins can delete other admins. If the adminsCounter is 0, the transaction will revert.

Parameters

Name	Type	Description
oldAdmin	address	undefined

deleteOperator

function

deleteOperator (address oldOperator) external

nonpayable

Parameters

Name	Type	Description
oldOperator	address	undefined

deposit

function

deposit (IStakingModule . ValidatorData data ,

bytes32 latestDepositRoot) external

payable

Parameters

Name	Type	Description
data	IStakingModule.ValidatorData	undefined
latestDepositRoot	bytes32	undefined

mevEth

function

mevEth () external

view

returns (address) The address of the MevEth contract

Returns

Name	Type	Description
_0	address	undefined

operators

function

operators (address) external

view

returns (bool)

Parameters

Name	Type	Description
_0	address	undefined

Returns

Name	Type	Description
_0	bool	undefined

payRewards

function

payRewards (uint256 rewards) external

nonpayable Function to pay rewards to the MevEth contract

Only callable by an operator

Parameters

Name	Type	Description
rewards	uint256	rewards to pay to the MevEth contract

payValidatorWithdraw

function

payValidatorWithdraw () external

nonpayable Function to pay MevEth when withdrawing funds from a validator

This function is only callable by an operator and emits an event for offchain validator registry tracking.

record

function

record () external

view

returns (uint128 totalDeposited ,

uint128 totalWithdrawn ,

uint128 totalRewardsPaid ,

uint128 totalValidatorExitsPaid) Record of total deposits, withdraws, rewards paid and validators exited

Returns

Name	Type	Description
totalDeposited	uint128	undefined
totalWithdrawn	uint128	undefined
totalRewardsPaid	uint128	

undefined totalValidatorExitsPaid uint128 undefined

recoverToken

function

recoverToken (address token ,

address recipient ,

uint256 amount) external

nonpayable Function to recover tokens sent to the contract.

This function is only callable by an admin.

Parameters

Name Type Description token address undefined recipient address undefined amount uint256 undefined

registerExit

function

registerExit () external

nonpayable registerExit() allows users to exit the system.

registerExit() is a function that allows users to exit the system. It is triggered by an external call.

setNewMevEth

function

setNewMevEth (address newMevEth) external

nonpayable Function to set a new mevEth address.#### Parameters

Name Type Description newMevEth address undefined

validators

function

validators () external

view

returns (uint256) The number of validators on the consensus layer registered under this contract

Returns

| Name | Type | Description | | ---- | - - - - - | - - - - - - - - | - - - - - - - | | _0 | uint256 | undefined | ## Events |

AdminAdded

event

AdminAdded (address

indexed newAdmin)

Parameters

Name Type Description newAdminindexed address undefined

AdminDeleted

event

AdminDeleted (address

indexed oldAdmin)

Parameters

Name	Type	Description
oldAdmin	indexed address	undefined

MevEthUpdated

event

MevEthUpdated (address

indexed meveth) Event emitted when the mevEth address is updated.#### Parameters

Name	Type	Description
meveth	indexed address	undefined

NewValidator

event

NewValidator (address

indexed operator, bytes pubkey, bytes32 withdrawalCredentials, bytes signature, bytes32 deposit_data_root) Event emitted when a validator is registered#### Parameters

Name	Type	Description
operator	indexed address	undefined
pubkey	bytes	undefined
withdrawalCredentials	bytes32	undefined
signature	bytes	undefined
deposit_data_root	bytes32	undefined

OperatorAdded

event

OperatorAdded (address

indexed newOperator)

Parameters

Name	Type	Description
newOperator	indexed address	undefined

OperatorDeleted

event

OperatorDeleted (address

indexed oldOperator)

Parameters

Name	Type	Description
oldOperator	indexed address	undefined

RewardsPaid

event

RewardsPaid (uint256

indexed amount) Event emitted when rewards are paid to the MevEth contract.#### Parameters

Name	Type	Description
amount	indexed uint256	undefined

TokenRecovered

event

TokenRecovered (address

indexed recipient, address

indexed token, uint256

indexed amount) Event emitted when tokens are recovered from the contract.#### Parameters

Name Type Description recipientindexed address undefined tokenindexed address undefined amountindexed uint256 undefined

ValidatorWithdraw

event

ValidatorWithdraw (address sender, uint256 amount) Event emitted when funds representing a validator withdrawal are sent to the MevEth contract.#### Parameters

| Name | Type | Description | | ----- | ----- | ----- | | sender | address | undefined | | amount | uint256 | undefined |
Errors |

AlreadySet

error

AlreadySet ()

DepositWasFrontrun

error

DepositWasFrontrun ()

NoAdmin

error

NoAdmin ()

NotEnoughEth

error

NotEnoughEth ()

UnauthorizedCaller

error

UnauthorizedCaller ()

Unauthorized

error

Unauthorized ()

WrongDepositAmount

error

WrongDepositAmount ()

ZeroAddress

error

ZeroAddress ()