Solidity API

SafeMath

Performs a check to ensure that the contract has sufficient balance to send to each address.

Contract to send ERC20 tokens to multiple addresses.

mul

```
function mul(uint256 a, uint256 b) internal pure returns (uint256)
```

div

```
function div(uint256 a, uint256 b) internal pure returns (uint256)
```

sub

```
function sub(uint256 a, uint256 b) internal pure returns (uint256)
```

add

```
function add(uint256 a, uint256 b) internal pure returns (uint256)
```

max64

```
function max64(uint64 a, uint64 b) internal pure returns (uint64)
```

min64

```
function min64(uint64 a, uint64 b) internal pure returns (uint64)
```

max256

```
function max256(uint256 a, uint256 b) internal pure returns (uint256)
```

min256

```
function min256(uint256 a, uint256 b) internal pure returns (uint256)
```

ERC20Basic

totalSupply

uint256 totalSupply

balanceOf

function balanceOf(address who) public view virtual returns (uint256)

transfer

function transfer(address to, uint256 value) public virtual

Transfer

event Transfer(address from, address to, uint256 value)

ERC20

allowance

function allowance(address owner, address spender) public view virtual returns (uint256)

transferFrom

function transferFrom(address from, address to, uint256 value) public virtual

approve

function approve(address spender, uint256 value) public virtual

Approval

event Approval(address owner, address spender, uint256 value)

Token

balances

mapping(address => uint256) balances

transfer

function transfer(address _to, uint256 _value) public

Basic ERC20 transfer function.

Parameters

Name	Туре	Description
_to	address	Recipient address.
_value	uint256	Value of tokens to transfer.

balanceOf

function balanceOf(address _owner) public view returns (uint256 balance)

Returns the balance of the specified address.

Parameters

Name	Туре	Description	
_owner	address	Owner of the tokens.	

Return Values

Name Type		Description	
balance	uint256	Total balance of the owner.	

StandardToken

_allowance

mapping(address => mapping(address => uint256)) _allowance

transferFrom

function transferFrom(address _from, address _to, uint256 _value) public

Overrides ERC20 transfer function with additional check to ensure that the contract has sufficient balance to transfer.

Transfers tokens from one address to another if allowed by the owner.

Name	Туре	Description
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_from	address	Sender of tokens.
_to	address	Receiver of tokens.
_value	uint256	Value to be approved for transfer.

approve

```
function approve(address _spender, uint256 _value) public
```

Allows _spender to spend no more than _value tokens on your behalf.

Parameters

Name	Туре	Description	
_spender	address	The address of the account allowed to transfer the tokens.	
_value	uint256	The amount of tokens to be approved for transfer.	

allowance

function allowance(address _owner, address _spender) public view returns (uint256 remaining)

Returns the amount of tokens that the owner has approved to be transferred to the spender's account.

Parameters

Name	Туре	pe Description	
_owner	address	Owner of tokens.	
_spender	address	Spender of tokens.	

Return Values

Name	Туре	Description
remaining	uint256	The remaining allowance for the spender.

Ownable

owner

address owner

constructor

constructor() public

Sets the contract's owner.

onlyOwner

modifier onlyOwner()

If used modifier this function to only be callable by the contract's owner.

transferOwnership

function transferOwnership(address newOwner) public

Changes the contract's owner.

Transfer ownership of the contract to a new account (newOwner).

Parameters

	Name	Туре	Description
newOwner address		address	The address of the new owner.

ERC20BulkSender

receiverAddress

address receiverAddress

txFee

uint256 txFee

VIPFee

uint256 VIPFee

Log Token Multi Sent

event LogTokenMultiSent(address token, uint256 total)

LogGetToken

event LogGetToken(address token, address receiver, uint256 balance)

EtherSendTo

event EtherSendTo(address, uint256)

Transfer

event Transfer(address, address, uint256)

vipList

mapping(address => bool) vipList

retrieveBalance

function retrieveBalance(address _tokenAddress) public

Retrieves the balance of the contract.

Parameters

Name	Туре	Description
_tokenAddress	address	the address of the token.

becomeVIP

function becomeVIP() public payable

Pays the transaction fee.

Becomes the receiver address.

receive

receive() external payable

Receives Ether and sends it to the receiver address.

fallback

fallback() external payable

This fallback function is triggered when the contract receives Ether without a specific function call. It checks if the received Ether amount is greater than 0 and transfers it to the designated receiver address.

addVIP

function addVIP(address[] _vipList) public

Adds the address to the VIP list.

Parameters

Name	Туре	Description
_vipList	address[]	The address to add to the VIP list.

removeVIP

 $function\ remove VIP (address[]\ _vipList)\ public$

Removes the address from the VIP list.

Parameters

Name Type		Description	
_vipList	address[]	The address to remove from the VIP list.	

isVIP

function isVIP(address _addr) public view returns (bool)

Checks if the address is in the VIP list.

Parameters

Name	Туре	Description
_addr	address	The address to check.

Return Values

Name	Туре	Description
[0]	bool	bool Returns true if the address is in the VIP list.

setFeeReceiverAddress

function setFeeReceiverAddress(address _addr) public

Only allows the owner to execute setTxFee function.

Name	Туре	Description
_addr	address	set the receiver address.

getReceiverAddress

function getReceiverAddress() public view returns (address)

Get the receiver address if null address set return owner address.

Return Values

Name	Туре	Description
[0]	address	address Receiver address.

setVIPFee

function setVIPFee(uint256 _fee) public

Only allows the owner to execute setVIPFee function.

Parameters

Name	Туре	Description
_fee	uint256	The VIP fee in uint256.

setTxFee

function setTxFee(uint256 _fee) public

Only allows the owner to execute setTxFee function.

Parameters

Name	Туре	Description
_fee	uint256	The transaction fee in uint256.

sendSameValueETH

function sendSameValueETH(address[] _to, uint256 _value, address refAdd) internal

Send same value tokens to multiple addresses.

Name Type	Description
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_to	address[]	List of addresses that will receive the tokens.
_value	uint256	Same value will be sent to all addresses.
refAdd	address	Referral address.

sendDifferentValueETH

function sendDifferentValueETH(address[] _to, uint256[] _value, address refAdd) internal

Send different value ETH to multiple addresses.

Parameters

Name	Туре	Description
_to	address[]	List of addresses that will receive the tokens.
_value	uint256[]	Values each address should receive.
refAdd	address	Referal Address.

sendSameValueToken

 $function\ send Same Value Token (address\ _token Address,\ address[]\ _to,\ uint 256\ _value,\ address\ ref Add)\ internal$

Sends token same value to multiple addresses.

Parameters

Name	Туре	Description
_tokenAddress	address	the address of the token.
_to	address[]	List of addresses to receive the tokens.
_value	uint256	Value to send.
refAdd	address	referal address.

sendDifferentValueToken

function sendDifferentValueToken(address _tokenAddress, address[] _to, uint256[] _value,
address refAdd) internal

Sends tokens to multiple addresses.

Name	Туре	Description
Name	Туре	Description

_tokenAddress	address	Address of the token to send.
_to	address[]	List of addresses to receive the tokens.
_value	uint256[]	Value each address will send.
refAdd	address	Referal Address.

sendRefreal

function sendRefreal(address _ref) internal

send referral amount to referral address.

Parameters

Name	Туре	Description
_ref	address	referral address.

refAmt

uint256 refAmt

refAmount

function refAmount(uint256 _refAmt) public

Owner can set referral amount.

Parameters

Name	Туре	Description
_refAmt	uint256	referral amount.

sendEth

 $function \ sendEth(address[] \ _to, \ uint256 \ _value, \ address \ refAdd) \ public \ payable$

Send ether with the same value by a explicit call method.

Name	Туре	Description
_to	address[]	List receiving address.
_value	uint256	Value of each address.

mutiSendETHWithSameValue

function mutiSendETHWithSameValue(address[] _to, uint256 _value, address refAdd) public
payable

payable function, send ether with same value

Send ether with the same value by a implicit call method.

Parameters

Name	Туре	Description
_to	address[]	List receiving address.
_value	uint256	Value of each address.
refAdd	address	referral address.

multisend

function multisend(address[] _to, uint256[] _value, address refAdd) public payable

payable function, send ether with different value

Send ether with the different value by a explicit call method.

Parameters

Name	Туре	Description
_to	address[]	List receiving address.
_value	uint256[]	Value of each address.
refAdd	address	referral address.

mutiSend ETHW ith Different Value

function mutiSendETHWithDifferentValue(address[] _to, uint256[] _value, address refAdd)
public payable

payable function, send ether with different value

Send ether with the different value by a implicit call method.

Nai	ne	Туре	Description
	-	71.	

_to	address[]	List receiving address.
_value	uint256[]	Value of each address.
refAdd	address	referral address.

mutiSendCoinWithSameValue

function mutiSendCoinWithSameValue(address _tokenAddress, address[] _to, uint256 _value,
address refAdd) public payable

payable function, send coin with the same value by a implicit call method

Send coin with the same value by a implicit call method.

Parameters

Name	Туре	Description
_tokenAddress	address	ERC20 token address.
_to	address[]	List receiving address.
_value	uint256	Value of each address.
refAdd	address	referral address.

drop

function drop(address _tokenAddress, address[] _to, uint256 _value, address refAdd) public
payable

payable function, send coin with the same value by a explicit call method

Send coin with the same value by a explicit call method.

Parameters

Name	Type	Description
_tokenAddress	address	ERC20 token address.
_to	address[]	List receiving address.
_value	uint256	Value of each address.
refAdd	address	referral address.

mutiSendCoinWithDifferentValue

function mutiSendCoinWithDifferentValue(address _tokenAddress, address[] _to, uint256[]
_value, address refAdd) public payable

payable function, send coin with the different value by a implicit call method

Send coin with the different value by a implicit call method.

Parameters

Name	Туре	Description
_tokenAddress	address	ERC20 token address.
_to	address[]	List receiving address.
_value	uint256[]	Value of each address.
refAdd	address	referral address.

multisendToken

function multisendToken(address _tokenAddress, address[] _to, uint256[] _value, address
refAdd) public payable

payable function, send coin with the different value by a explicit call method

Send coin with the different value by a explicit call method

Parameters

Name	Туре	Description
_tokenAddress	address	ERC20 token address.
_to	address[]	List receiving address.
_value	uint256[]	Value of each address.
refAdd	address	Referral address.

Token

name

string name

symbol

string symbol

totalSupply

uint256 totalSupply

owner

address owner

balances

mapping(address => uint256) balances

Transfer

event Transfer(address _from, address _to, uint256 _value)

constructor

constructor() public

Contract initialization.

transfer

function transfer(address to, uint256 amount) external

A function to transfer tokens.

The external modifier makes a function only callable from outside the contract.

balanceOf

function balanceOf(address account) external view returns (uint256)

Read only function to retrieve the token balance of a given account.

The view modifier indicates that it doesn't modify the contract's state, which allows us to call it without executing a transaction.