



Cyberscope

Audit Report

Wall E

April 2022

Type BEP20

Network BSC

Address 0x27BACd990c8F537aa3243E92eadD8A49eEd4Ad4A

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Contract Review

Contract Name	WEI
Compiler Version	v0.8.13+commit.abaa5c0e
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x27BACd990c8F537aa3243E92eadD8A49eEd4Ad4A
Symbol	WEI
Decimals	9
Total Supply	10,000,000,000
Domain	

Source Files

Filename	SHA256
contract.sol	c8bf2c5eeb218fb22529261bb291bfc4b69158f71f247bd8ae7b5c07481a7690

Audit Updates

Initial Audit	17th April 2022
Corrected	26th April 2022

Contract Analysis

● Critical ● Medium ● Minor ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	minor
Location	contract.sol#L285

Description

The contract owner has the authority to stop the purchases for all users excluding the owner. The owner may take advantage of it by setting the `cooldownTimerInterval` to a high value.

```
if (sender == pair &&
    opCooldownEnabled &&
    !isTimelockExempt[recipient]) {
    require(cooldownTimer[recipient] < block.timestamp, "Please wait for 1min
between two operations");
    cooldownTimer[recipient] = block.timestamp + cooldownTimerInterval;
}
```

Recommendation

The contract could embody a check for not allowing setting the `cooldownTimerInterval` more than a reasonable amount.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

OCTD - Owner Contract Tokens Drain

Criticality	minor
Location	contract.sol#L422

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the `manualSend` function.

```
function manualSend() external authorized {  
    uint256 contractETHBalance = address(this).balance;  
    payable(marketingFeeReceiver).transfer(contractETHBalance);  
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

ELFM - Exceed Limit Fees Manipulation

Criticality	minor
Location	contract.sol#L433

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the `setFees` function and increase them up to a total 33%.

```
function setFees(uint256 _liquidityFee, uint256 _marketingFee, uint256
_devFee, uint256 _feeDenominator) external authorized {
    liquidityFee = _liquidityFee;
    marketingFee = _marketingFee;
    devFee = _devFee;
    totalFee = _liquidityFee.add(_marketingFee).add(_devFee);
    feeDenominator = _feeDenominator;
    require(totalFee < feeDenominator/3);
}
```

Recommendation

The contract could embody a check for the maximum acceptable value.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L95,103,124,400,427,441

Description

Public functions that are never called by the contract should be declared external to save gas.

```
isOverLiquified  
transferForeignToken  
cooldownEnabled  
transferOwnership  
unauthorize  
authorize
```

Recommendation

Use the external attribute for functions never called from the contract.

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L189,188,190,197,191

Description

Constant state variables should be declared constant to save gas.

```
routerAddress
_totalSupply
ZERO
WBNB
DEAD
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L71,139,391,400,413,418,427,188,189,190,193,194,195,197,198,200,201

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
_allowances  
_balances  
_maxWalletSize  
_totalSupply  
_decimals  
_symbol  
_name  
ZERO  
DEAD  
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L391

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
liquidityFee = _liquidityFee
```

Recommendation

Emit an event for critical parameter changes.

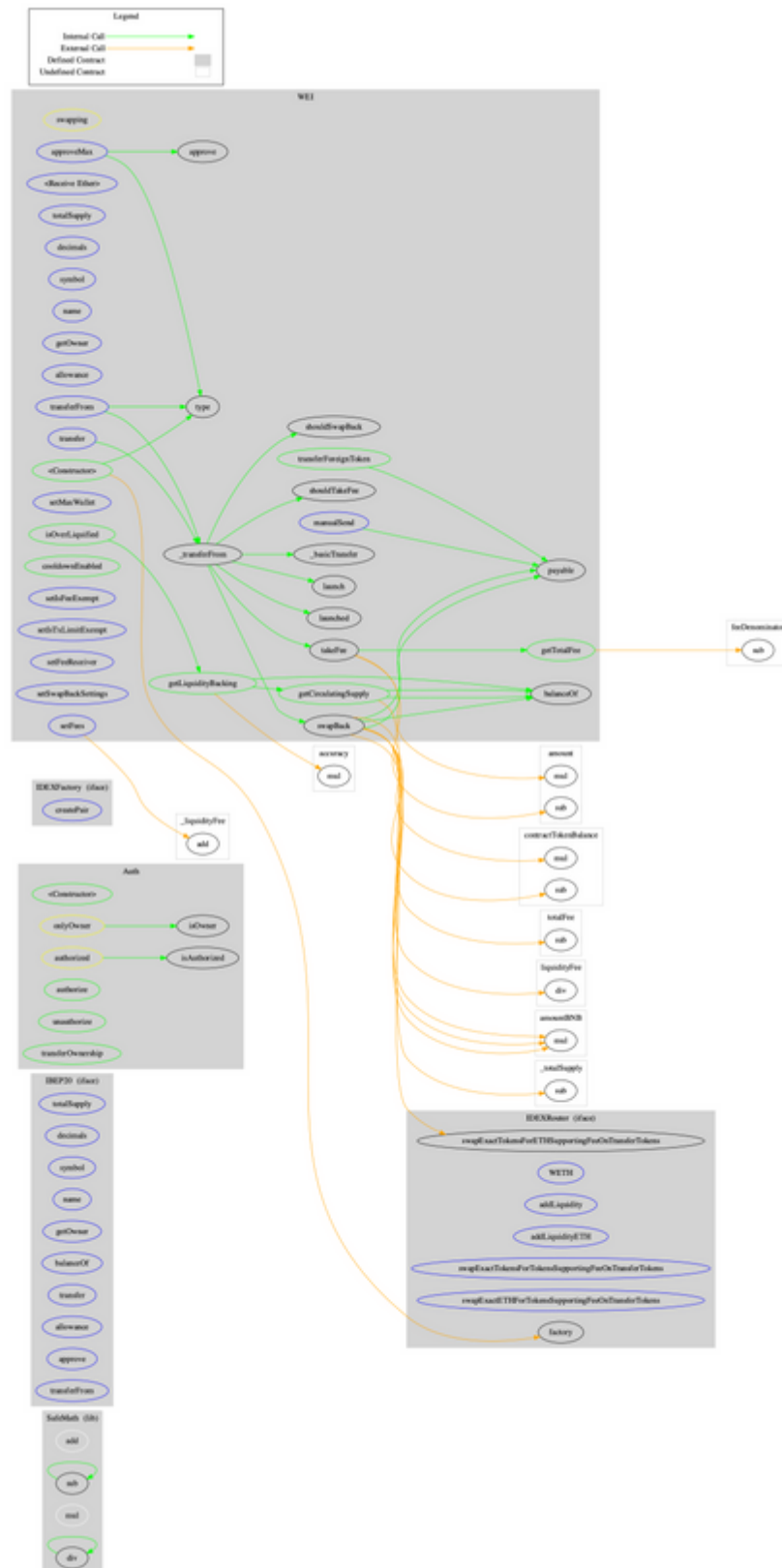
Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
IBEP20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Auth	Implementation			
	<Constructor>	Public	✓	-
	authorize	Public	✓	onlyOwner
	unauthorize	Public	✓	onlyOwner
	isOwner	Public		-
	isAuthorized	Internal		
	transferOwnership	Public	✓	onlyOwner
IDEXFactory	Interface			

	createPair	External	✓	-
IDEXRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
WEI	Implementation	IBEP20, Auth		
	<Constructor>	Public	✓	Auth
	<Receive Ether>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	approveMax	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	_transferFrom	Internal	✓	
	_basicTransfer	Internal	✓	
	shouldTakeFee	Internal		
	getTotalFee	Public		-
	takeFee	Internal	✓	
	shouldSwapBack	Internal		
	swapBack	Internal	✓	swapping
	launched	Internal		

	launch	Internal	✓	
	setMaxWallet	External	✓	onlyOwner
	setFees	External	✓	authorized
	cooldownEnabled	Public	✓	authorized
	setIsFeeExempt	External	✓	authorized
	setIsTxLimitExempt	External	✓	authorized
	setFeeReceiver	External	✓	authorized
	setSwapBackSettings	External	✓	authorized
	manualSend	External	✓	authorized
	transferForeignToken	Public	✓	authorized
	getCirculatingSupply	Public		-
	getLiquidityBacking	Public		-
	isOverLiquified	Public		-

Contract Flow



Domain Info

Domain Name	wall-e.online
Registry Domain ID	D290306079-CNIC
Creation Date	2022-04-12T06:47:54+00:00
Updated Date	2022-04-12T06:47:55+00:00
Registry Expiry Date	2023-04-12T23:59:59+00:00
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com/
Registrar	Go Daddy, LLC
Registrar IANA ID	146

The domain has been created 5 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.

Summary

Wall E Token is an interesting project that has a friendly and growing community. There are some minor findings that can not be used in a malicious way to disturb the users' sales. The fees limit is 33%.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Cyberscope team disclaims any liability for the resulting losses.

About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>