



Cyberscope

# Audit Report

## **WalkSphere**

May 2022

Type        BEP20

Network     BSC

Address     0x4a92eB03D5936a802E91d36a76AcF485C295C909

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## Contract Review

<b>Contract Name</b>	WALKXToken
<b>Compiler Version</b>	v0.8.9+commit.e5eed63a
<b>Optimization</b>	200 runs
<b>Licence</b>	
<b>Explorer</b>	<a href="https://bscscan.com/token/0x4a92eB03D5936a802E91d36a76AcF485C295C909">https://bscscan.com/token/0x4a92eB03D5936a802E91d36a76AcF485C295C909</a>
<b>Symbol</b>	WALKX
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	walksphere.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	f1da2754a88ffbc916dad465fc2831d8f8e3d057b308438000553b80c1a41d33

## Audit Updates

<b>Initial Audit</b>	24th May 2022
<b>Corrected</b>	31st May 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

# 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#L168,172,184,273,342

### Description

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

```
getPaidEarnings  
deposit  
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#L228

### Description

Constant state variables should be declared constant to save gas.

```
dividendsPerShareAccuracyFactor
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L100,252,206,791,810,814,826,831,836,841,376,377,378,379,392,394

### 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.

```
feeDenominator  
sellFee  
_totalSupply  
_decimals  
_symbol  
_name  
_minDistribution  
_minPeriod  
_denominator  
...
```

### Recommendation

Follow the Solidity naming convention.

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



## L07 - Missing Events Arithmetic

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L252,257,814,831,836,850

### 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.

```
antiWhaleTxLimitDenominator = newDenominator  
targetLiquidity = _target  
swapThreshold = _amount  
liquidityFee = _liquidityFee  
totalShares = totalShares.sub(shares[shareholder].amount).add(amount)  
minPeriod = _minPeriod
```

### Recommendation

Emit an event for critical parameter changes.

# Contract Functions

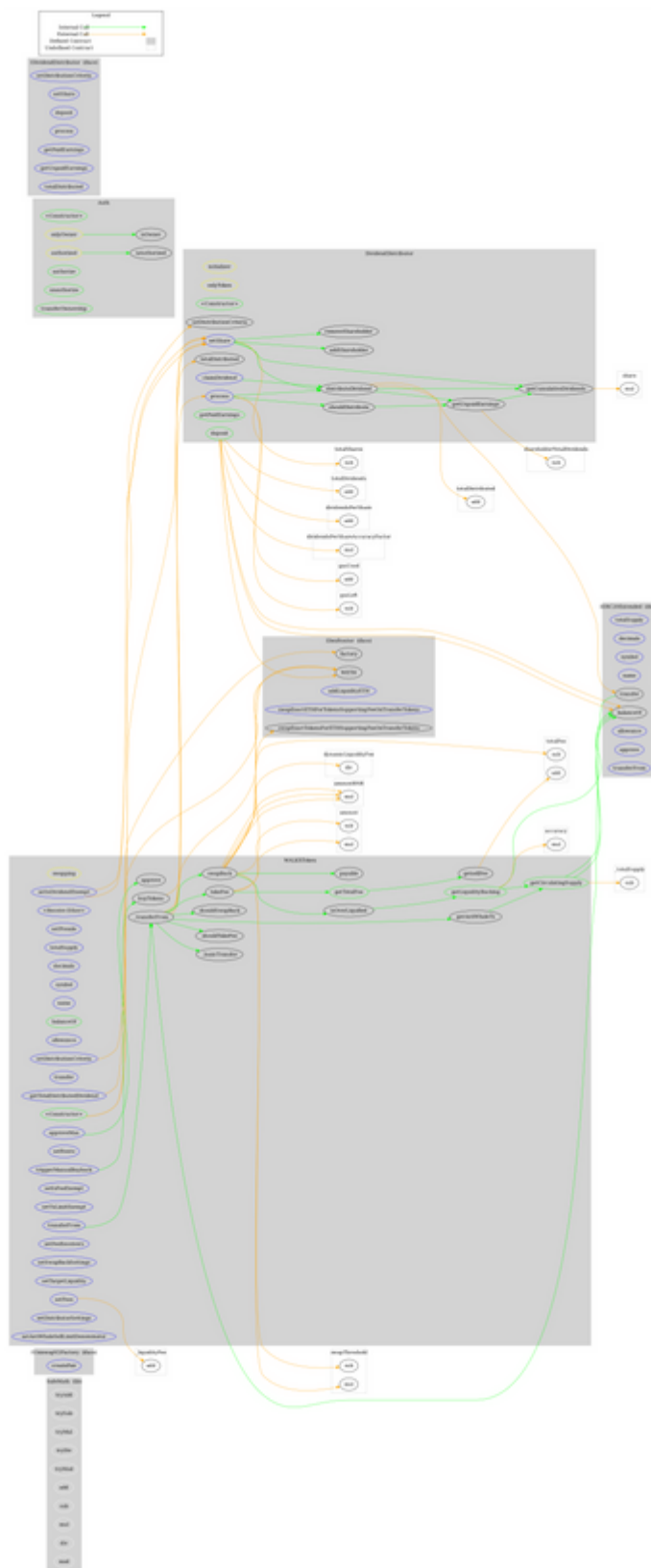
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>SafeMath</b>	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
<b>IUniswapV2Factory</b>	Interface			
	createPair	External	✓	-
<b>IDexRouter</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IERC20Extended</b>	Interface			

	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Auth</b>	Implementation			
	<Constructor>	Public	✓	-
	authorize	Public	✓	onlyOwner
	unauthorize	Public	✓	onlyOwner
	isOwner	Public		-
	isAuthorized	Public		-
	transferOwnership	Public	✓	onlyOwner
<b>IDividendDistributor</b>	Interface			
	setDistributionCriteria	External	✓	-
	setShare	External	✓	-
	deposit	External	Payable	-
	process	External	✓	-
	getPaidEarnings	External		-
	getUnpaidEarnings	External		-
	totalDistributed	External		-
<b>DividendDistributor</b>	Implementation	IDividendDistributor		
	<Constructor>	Public	✓	-
	setDistributionCriteria	External	✓	onlyToken
	setShare	External	✓	onlyToken
	deposit	Public	Payable	-
	process	External	✓	onlyToken

	shouldDistribute	Internal		
	distributeDividend	Internal	✓	
	claimDividend	External	✓	-
	getPaidEarnings	Public		-
	getUnpaidEarnings	Public		-
	getCumulativeDividends	Internal		
	addShareholder	Internal	✓	
	removeShareholder	Internal	✓	
<b>WALKXToken</b>	Implementation	IERC20Extended, Auth		
	<Constructor>	Public	Payable	Auth
	<Receive Ether>	External	Payable	-
	setPresale	External	✓	authorized
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	approveMax	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	_transferFrom	Internal	✓	
	_basicTransfer	Internal	✓	
	shouldTakeFee	Internal		
	getTotalFee	Public		-
	getsellFee	Public		-
	takeFee	Internal	✓	
	shouldSwapBack	Internal		
	swapBack	Internal	✓	swapping
	triggerManualBuyback	External	✓	authorized
	buyTokens	Internal	✓	swapping
	getTotalDistributedDividend	External		-

	setRoute	External	✓	authorized
	setIsDividendExempt	External	✓	authorized
	setIsFeeExempt	External	✓	authorized
	setTxLimitExempt	External	✓	authorized
	setFees	External	✓	authorized
	setFeeReceivers	External	✓	authorized
	setSwapBackSettings	External	✓	authorized
	setTargetLiquidity	External	✓	authorized
	setDistributionCriteria	External	✓	authorized
	setDistributorSettings	External	✓	authorized
	setAntiWhaleSellLimitDenominator	External	✓	authorized
	getCirculatingSupply	Public		-
	getAntiWhaleTx	Public		-
	getLiquidityBacking	Public		-
	isOverLiquified	Public		-

# Contract Flow



## Domain Info

<b>Domain Name</b>	walksphere.com
<b>Registry Domain ID</b>	2691311244_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-04-23T14:57:23.00Z
<b>Updated Date</b>	0001-01-01T00:00:00.00Z
<b>Registry Expiry Date</b>	2023-04-23T14:57:23.00Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="http://www.namecheap.com">http://www.namecheap.com</a>
<b>Registrar</b>	NAMECHEAP INC
<b>Registrar IANA ID</b>	1068

The domain has been created about 1 month before the creation of the audit. It will expire in 11 months.

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

## Summary

Walk Sphere Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 22% fees for selling and 20% for buying.



# 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.

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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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>