



Cyberscope

# Audit Report

## **Justice Token**

April 2022

Type           BEP20

Network       BSC

Address       0xffdccacb0ad5f9fefdc99870eb6ac73a4c714842

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## Contract Review

<b>Contract Name</b>	Justice
<b>Compiler Version</b>	v0.8.7+commit.e28d00a7
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0xFFDCCACB0aD5f9FEFd c99870EB6Ac73A4c714842">https://bscscan.com/token/0xFFDCCACB0aD5f9FEFd c99870EB6Ac73A4c714842</a>
<b>Symbol</b>	JUSTICE
<b>Decimals</b>	9
<b>Total Supply</b>	100,000,000
<b>Domain</b>	justiceproject.io

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>Justice Token AntiBot.sol</b>	db91dd3cfe1b019585c75d24032913b07c8703ccd7962c5769215ade086cda26
<b>justicetoken-imp ortsV2.sol</b>	eceeba5278ba8cdaae256e51e86a259014e9271b669670fdb6fc779ca22e1e2

## Audit Updates

<b>Initial Audit</b>	12th April 2022
<b>Corrected</b>	

# 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
●	CO	Code Optimization
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L08	Tautology or Contradiction
●	L09	Dead Code Elimination
●	L13	Divide before Multiply Operation
●	L15	Local Scope Variable Shadowing

## CO - Code Optimization

**Criticality**

minor

**Location**

contract.sol#L61, 475

### Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations.

```
uint256 internal constant maxWalletBalance = 0;
```

```
if ( maxWalletBalance > 0 && !_isUnlimitedSender(sender) &&
    !_isUnlimitedRecipient(recipient) && !_isV2Pair(recipient) ){
    uint256 recipientBalance = balanceOf(recipient);
    require(recipientBalance + amount <= maxWalletBalance, "New
balance would exceed the maxWalletBalance");
}
```

Also, the contract is calling `_takeFee` through `_takeFeeToEth`.

```
function _takeFeeToETH(uint256 amount, uint256 currentRate, uint256 fee,
address recipient, uint256 index) private {
    _takeFee(amount, currentRate, fee, recipient, index);
}
```

### Recommendation

Rewrite some code segments so the runtime will be more performant.

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	Justice Token AntiBot.sol#L344,349,409  justicetoken-importsV2.sol#L104,108,113,116,122

### Description

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

```
unlock  
lock  
getUnlockTime  
transferOwnership  
renounceOwnership  
isExcludedFromFee  
decreaseAllowance  
increaseAllowance
```

### Recommendation

Use the external attribute for functions never called from the contract



## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

Justice Token AntiBot.sol#L615,617,619,121,119,120,116

### Description

Constant state variables should be declared constant to save gas.

```
burnAddress  
Staking  
Gameplay  
Development  
_testnetRouterAddress  
_mainnetRouterV2Address  
_mainnetRouterV1Address
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	Justice Token AntiBot.sol#L37,61,75,119,120,121,332,421,201,202 and 5 more  justicetoken-importsV2.sol#L153

### 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.

```
WETH
_pair
_router
_isExcludedFromRewards
_isExcludedFromFee
_allowances
_balances
_reflectedBalances
_enable
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L08 - Tautology or Contradiction

**Criticality**

minor

**Location**

Justice Token AntiBot.sol#L169

### Description

Detects expressions that are tautologies or contradictions. For instance, an uint variable will always be greater than or equal to zero.

```
require(bool,string)(index >= 0 && index < fees.length,FeesSettings._getFeeStruct: Fee index out of bounds)
```

### Recommendation

Fix the incorrect comparison by changing the value type or the comparison.

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

justicetoken-importsV2.sol#L76,51,52,53,54,68,71,60,63,46 and 1 more

Justice Token AntiBot.sol#L565,575,580,602,808,142,147,183

### Description

Functions that are not used in the contract, and make the code's size bigger.

```
getCollectedFeeTotal
_addFees
_addFee
_approveDelegate
_takeTransactionFees
_isV2Pair
_getSumOfFees
_beforeTokenTransfer
sendValue
...
```

### Recommendation

Remove unused functions.

## L13 - Divide before Multiply Operation

**Criticality**

minor

**Location**

Justice Token AntiBot.sol#L527,591,905,913

### Description

Performing divisions before multiplications may cause lose of prediction.

```
tAmount = amount.mul(fee).div(FEES_DIVISOR)
tBurn = amount.mul(fee).div(FEES_DIVISOR)
tFee = amount.mul(fee).div(FEES_DIVISOR)
tTotalFees = tAmount.mul(feesSum).div(FEES_DIVISOR)
```

### Recommendation

The multiplications should be prior to the divisions.

## L15 - Local Scope Variable Shadowing

**Criticality**

minor

**Location**

Justice Token AntiBot.sol#L499,521,839,883

### Description

There are variables that are defined in the local scope containing the same name from an upper scope.

```
name
_env
sumOfFees
```

### Recommendation

The local variables should have different names from the upper scoped variables.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Tokenomics</b>	Implementation			
	<Constructor>	Public	✓	-
	_addFee	Private	✓	
	_addFees	Private	✓	
	_getFeesCount	Internal		
	_getFeeStruct	Private		
	_getFee	Internal		
	_addFeeCollectedAmount	Internal	✓	
	getCollectedFeeTotal	Internal		
<b>Presaleable</b>	Implementation	Manageable		
	setPreseableEnabled	External	✓	onlyManager
<b>BaseRfiToken</b>	Implementation	IERC20, IERC20Met adata, Ownable, Presaleable, Tokenomics		
	<Constructor>	Public	✓	-
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	Public		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
	burn	External	✓	-

	_burnTokens	Internal	✓	
	setMaxTransactionAmount	External	✓	onlyOwner
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	External		-
	reflectionFromToken	External		-
	tokenFromReflection	Internal		
	excludeFromReward	External	✓	onlyManager
	_exclude	Internal	✓	
	includeInReward	External	✓	onlyManager
	setExcludedFromFee	External	✓	onlyManager
	isExcludedFromFee	Public		-
	_approve	Internal	✓	
	setEnableAntiBot	External	✓	onlyOwner
	_isUnlimitedSender	Internal		
	_isUnlimitedRecipient	Internal		
	_transfer	Private	✓	
	_transferTokens	Private	✓	
	_takeFees	Private	✓	
	_getValues	Internal		
	_getCurrentRate	Internal		
	_getCurrentSupply	Internal		
	_beforeTokenTransfer	Internal	✓	
	_getSumOfFees	Internal		
	_isV2Pair	Internal		
	_redistribute	Internal	✓	
	_takeTransactionFees	Internal	✓	
<b>Liquifier</b>	Implementation	Ownable, Manageable		
	<Receive Ether>	External	Payable	-
	initializeLiquiditySwapper	Internal	✓	
	liquify	Internal	✓	
	_setRouterAddress	Private	✓	
	_swapAndLiquify	Private	✓	lockTheSwap
	_swapTokensForEth	Private	✓	

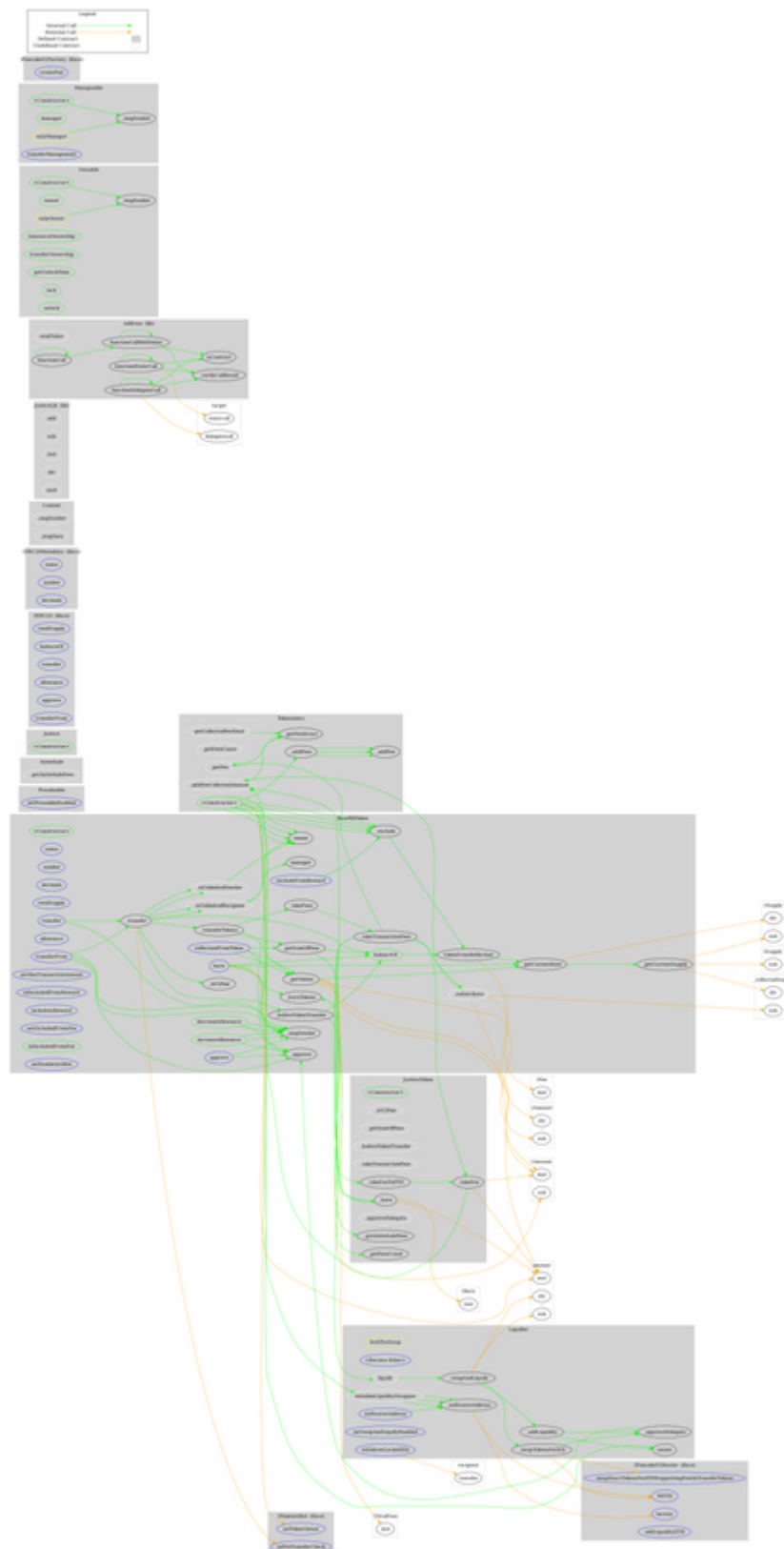


	_addLiquidity	Private	✓	
	setRouterAddress	External	✓	onlyManager
	setSwapAndLiquifyEnabled	External	✓	onlyManager
	withdrawLockedEth	External	✓	onlyManager
	_approveDelegate	Internal	✓	
<b>Antiwhale</b>	Implementation	Tokenomics		
	_getAntiwhaleFees	Internal		
<b>JusticeToken</b>	Implementation	BaseRfiToken, Liquifier, Antiwhale		
	<Constructor>	Public	✓	-
	_isV2Pair	Internal		
	_getSumOfFees	Internal		
	_beforeTokenTransfer	Internal	✓	
	_takeTransactionFees	Internal	✓	
	_burn	Private	✓	
	_takeFee	Private	✓	
	_takeFeeToETH	Private	✓	
	_approveDelegate	Internal	✓	
<b>Justice</b>	Implementation	JusticeToken		
	<Constructor>	Public	✓	JusticeToken
<b>IPinkAntiBot</b>	Interface			
	setTokenOwner	External	✓	-
	onPreTransferCheck	External	✓	-
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-

	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>JusticeLib</b>	Library			
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
<b>Address</b>	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	_verifyCallResult	Private		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-

	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	getUnlockTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
<b>Manageable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	manager	Public		-
	transferManagement	External	✓	onlyManager
<b>IPancakeV2Factory</b>	Interface			
	createPair	External	✓	-
<b>IPancakeV2Router</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-

# Contract Flow



## Domain Info

<b>Domain Name</b>	justiceproject.io
<b>Registry Domain ID</b>	af27f681165240b2b932d6afb4205e3b-DONUTS
<b>Creation Date</b>	2022-01-12T05:43:53Z
<b>Updated Date</b>	2022-02-23T13:35:08Z
<b>Registry Expiry Date</b>	2023-01-12T05:43:53Z
<b>Registrar WHOIS Server</b>	whois.godaddy.com/
<b>Registrar URL</b>	<a href="http://www.godaddy.com/domains/search.aspx?ci=8990">http://www.godaddy.com/domains/search.aspx?ci=8990</a>
<b>Registrar</b>	GoDaddy.com, LLC
<b>Registrar IANA ID</b>	146

The domain has been created 3 months before the creation of the audit. It will expire in 9 months.

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

## Summary

Justice 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 25% fees.

## 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 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>