



Cyberscope

# Audit Report

## **ARABIANSHINJA**

April 2022

Type           BEP20

Network       BSC

Address       0x74883D5c9C9C5C0BEF7458E71BA303609cCEC3bc

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## Contract Review

<b>Contract Name</b>	ARABIANSHINJA
<b>Compiler Version</b>	v0.8.10+commit.fc410830
<b>Optimization</b>	5 runs
<b>Licence</b>	None
<b>Explorer</b>	<a href="https://bscscan.com/token/0x74883D5c9C9C5C0BEF7458E71BA303609cCEC3bc">https://bscscan.com/token/0x74883D5c9C9C5C0BEF7458E71BA303609cCEC3bc</a>
<b>Symbol</b>	\$ARABIANSHINJA
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000,000
<b>Domain</b>	arabianshibnobi.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	8224f04b191935c2b52a34c20ad32d9f6d54a8e561d913d794d61082b8a70cbe

## Audit Updates

<b>Initial Audit</b>	27th April 2022
<b>Corrected</b>	30th 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

## OTUT - Owner Transfer User's Tokens

Criticality	critical
Location	contract.sol#L936

### Description

The contract owner has the authority to transfer the balance of a user's contract to the owner's contract. The owner may take advantage of it by calling the `airdrop` function.

```
function airdrop(address sender, address[] calldata recipients, uint256[]  
calldata values) external onlyOwner {  
    require(recipients.length == values.length, "Mismatch between Address and  
token count");  
    for (uint256 i = 0; i < recipients.length; i++) {  
        _transfer(sender, recipients[i], values[i] * DECIMALS);  
    }  
}
```

### 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	critical
Location	contract.sol#L696

### Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by setting the `_treasuryFee` to 99.

```
function setFees(uint256 _marketingFee, uint256 _devFee, uint256 _treasuryFee,
uint256 _liquidityFee, uint256 _rewardsFee, uint256 _sellFeeIncrease) public
onlyOwner{
    require(0 <= _rewardsFee && _rewardsFee <= 5, "Requested rewardsFee fee not
within acceptable range.");
    require(0 <= _liquidityFee && _liquidityFee <= 5, "Requested liquidity fee
not within acceptable range.");
    require(0 <= _marketingFee && _marketingFee <= 99, "Requested marketing fee
not within acceptable range.");
    require(0 <= _devFee && _devFee <= 99, "Requested marketing fee not within
acceptable range.");
    require(0 <= _devFee && _treasuryFee <= 99, "Requested marketing fee not
within acceptable range.");
    require(0 <= _sellFeeIncrease && _sellFeeIncrease <= 99, "Requested sell fee
increase not within acceptable range.");
    require(0 < _marketingFee + _liquidityFee, "Total fee amount must be
strictly positive.");

    rewardsFee = _rewardsFee;
    liquidityFee = _liquidityFee;
    marketingFee = _marketingFee;
    devFee = _devFee;
    TreasuryFee = _treasuryFee;
    sellFeeIncrease = _sellFeeIncrease;
    totalFees = _rewardsFee + _liquidityFee + _marketingFee + _treasuryFee +
_devFee;

    emit SetFees( marketingFee, TreasuryFee, devFee);
}
```

### 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
●	L03	Redundant Statements
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic
●	L08	Tautology or Contradiction
●	L09	Dead Code Elimination
●	L12	Using Variables before Declaration
●	L13	Divide before Multiply Operation
●	L14	Uninitialized Variables in Local Scope

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L82,96,101,126,130,134,138,146,151,155,160,166,171,299,580,587,597,613,631,648,655,676,696,706,838,921

### Description

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

```
buybackStuckBNB  
planBurn  
setSwapTokensAtAmount  
setTradeRestrictions  
setFees  
setDistributionCriteria  
updateGasForProcessing  
setAutomatedMarketMakerPair  
updateUniswapV2Router  
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L437,247

### Description

Constant state variables should be declared constant to save gas.

```
dividendsPerShareAccuracyFactor  
deadAddress
```

### Recommendation

Add the constant attribute to state variables that never change.

## L03 - Redundant Statements

**Criticality**

minor

**Location**

contract.sol#L875,876,877

### Description

Detect the usage of redundant statements that have no effect.

ARABIANSINJA

### Recommendation

Remove redundant statements if they congest code but offer no value.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L19,82,275,223,224,233,235,580,587,655,676,696,706,797,838,843,452

### 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.

```
TreasuryFee
_burnAmount
_burnDenominator
_burnNumerator
_minutes
_shouldBurn
_swapTokensAtAmount
_maxWallet
_maxTx
...
```

### 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#L275,280,580

### 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.

```
antiBotDuration = _antiBotDuration  
totalShares = totalShares - shares[shareholder].amount + amount  
minPeriod = _minPeriod
```

### Recommendation

Emit an event for critical parameter changes.

## L08 - Tautology or Contradiction

**Criticality**

minor

**Location**

contract.sol#L676

### 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)(0 <= _rewardsFee && _rewardsFee <= 5,Requested rewardsFee  
fee not within acceptable range.)  
require(bool,string)(0 <= _devFee && _devFee <= 99,Requested marketing fee not  
within acceptable range.)  
require(bool,string)(0 <= _marketingFee && _marketingFee <= 99,Requested  
marketing fee not within acceptable range.)  
require(bool,string)(0 <= _sellFeeIncrease && _sellFeeIncrease <= 99,Requested  
sell fee increase not within acceptable range.)  
require(bool,string)(0 <= _liquidityFee && _liquidityFee <= 5,Requested  
liquidity fee not within acceptable range.)  
require(bool,string)(0 <= _devFee && _treasuryFee <= 99,Requested marketing fee  
not within acceptable range.)
```

### Recommendation

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

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L195,213

### Description

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

```
_setupDecimals  
_burn
```

### Recommendation

Remove unused functions.



## L12 - Using Variables before Declaration

**Criticality**

minor

**Location**

contract.sol#L760

### Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

```
fee  
burnFees
```

### Recommendation

The variables should be declared before any usage of them.

## L13 - Divide before Multiply Operation

**Criticality**

minor

**Location**

contract.sol#L856,428

### Description

Performing divisions before multiplications may cause lose of prediction.

```
maxWallet = 20 * TOTAL_SUPPLY / 1000 * (DECIMALS)
swapTokensAtAmount = 5 * TOTAL_SUPPLY / 1e4 * (DECIMALS)
maxTx = 5 * TOTAL_SUPPLY / 1000 * (DECIMALS)
treasurytokens = tokens * TreasuryFee / totalFees
devtokens = tokens * devFee / totalFees
marketingtokens = tokens * marketingFee / totalFees
halfLPTokens = LPtokens / 2
```

### Recommendation

The multiplications should be prior to the divisions.

## L14 - Uninitialized Variables in Local Scope

**Criticality**

minor

**Location**

contract.sol#L766

### Description

There are variables that are defined in the local scope and are not initialized.

```
burnFees_scope_1  
fee_scope_0
```

### Recommendation

All the local scoped variables should be initialized.

# Contract Functions

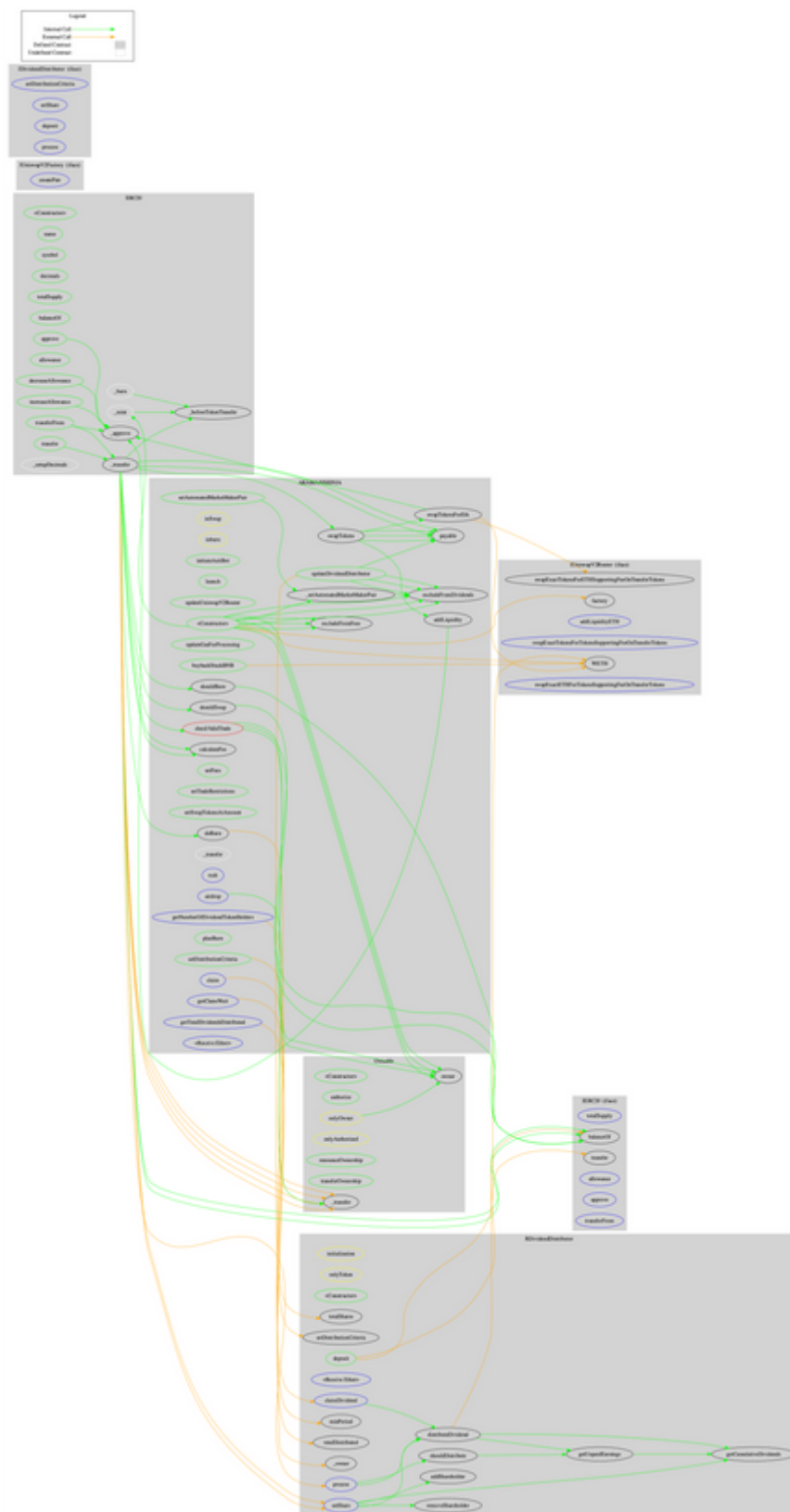
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IUniswapV2Router</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
<b>IUniswapV2Factory</b>	Interface			
	createPair	External	✓	-
<b>IDividendDistributor</b>	Interface			
	setDistributionCriteria	External	✓	-
	setShare	External	✓	-
	deposit	External	Payable	-
	process	External	✓	-

<b>Ownable</b>	Implementation			
	<Constructor>	Public	✓	-
	owner	Public		-
	authorize	Public	✓	onlyOwner
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
<b>ERC20</b>	Implementation	IERC20		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
<b>RDividendDistributor</b>	Implementation	IDividendDistributor		
	<Constructor>	Public	✓	-
	setDistributionCriteria	External	✓	onlyToken
	setShare	External	✓	onlyToken
	deposit	Public	Payable	-
	<Receive Ether>	External	Payable	-
	process	External	✓	-
	shouldDistribute	Internal		

	distributeDividend	Internal	✓	
	claimDividend	External	✓	-
	getUnpaidEarnings	Public		-
	getCumulativeDividends	Internal		
	addShareholder	Internal	✓	
	removeShareholder	Internal	✓	
<b>ARABIANSHINJA</b>	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	initiateAntiBot	Public	✓	onlyOwner
	launch	Public	✓	onlyOwner
	updateDividendDistributor	Public	✓	onlyOwner
	updateUniswapV2Router	Public	✓	onlyOwner
	excludeFromFees	Public	✓	onlyOwner
	excludeFromDividends	Public	✓	onlyOwner
	setAutomatedMarketMakerPair	Public	✓	onlyOwner
	_setAutomatedMarketMakerPair	Private	✓	
	updateGasForProcessing	Public	✓	onlyOwner
	setDistributionCriteria	Public	✓	onlyOwner
	getClaimWait	External		-
	getTotalDividendsDistributed	External		-
	claim	External	✓	-
	getNumberOfDividendTokenHolders	External		-
	setFees	Public	✓	onlyOwner
	setTradeRestrictions	Public	✓	onlyOwner
	setSwapTokensAtAmount	Public	✓	onlyOwner
	checkValidTrade	Private		
	_transfer	Internal	✓	
	rush	External	✓	onlyAuthorized
	calculateFee	Private	✓	
	shouldBurn	Private		
	planBurn	Public	✓	onlyAuthorized
	doBurn	Private	✓	inburn
	shouldSwap	Private		
	swapTokens	Private	✓	inSwap

	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	buybackStuckBNB	Public	✓	onlyAuthorized
	airdrop	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-

# Contract Flow





## Domain Info

<b>Domain Name</b>	arabianshibnobi.com
<b>Registry Domain ID</b>	2691286184_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-04-23T07:15:44Z
<b>Updated Date</b>	2022-04-23T07:15:46Z
<b>Registry Expiry Date</b>	2023-04-23T07:15:44Z
<b>Registrar WHOIS Server</b>	whois.publicdomainregistry.com
<b>Registrar URL</b>	www.publicdomainregistry.com
<b>Registrar</b>	PDR Ltd. d/b/a PublicDomainRegistry.com
<b>Registrar IANA ID</b>	303

The domain has been created 4 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

There are some functions that can be abused by the owner, like manipulating fees and transferring user tokens. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

## Disclaimer

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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>