

Audit Report **SPORTY**

August 2022

Type BEP20

Network BSC

Address 0xe672237cC26FcfDFb593e30E7fEff450646c8A3f

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Table of Contents

Table of Contents	1
Contract Review	3
Source Files	3
Audit Updates	3
Contract Analysis	4
ULTW - Transfers Liquidity to Team Wallet	5
Description	5
Recommendation	6
Contract Diagnostics	7
ZD - Zero Division	8
Description	8
Recommendation	8
STC - Succeeded Transfer Check	9
Description	9
Recommendation	9
L01 - Public Function could be Declared External	10
Description	10
Recommendation	10
L02 - State Variables could be Declared Constant	11
Description	11
Recommendation	11
L04 - Conformance to Solidity Naming Conventions	12
Description	12
Recommendation	12
L07 - Missing Events Arithmetic	13
Description	13

Recommendation	13
L12 - Using Variables before Declaration	14
Description	14
Recommendation	14
L14 - Uninitialized Variables in Local Scope	15
Description	15
Recommendation	15
Contract Functions	16
Contract Flow	
Summary	20
Disclaimer	
About Cyberscope	22



Contract Review

Contract Name	Sporty
Compiler Version	v0.8.15+commit.e14f2714
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xe672237cc26fcfdfb593e30 e7feff450646c8a3f
Symbol	SPORTY
Decimals	5
Total Supply	1,000,000,000
Domain	sporty.game

Source Files

Filename	SHA256
contract.sol	e87cac03f9c35fa4ce301ae979644b1bda363598b6ddde1 bf48ec23217170fc9

Audit Updates

Initial Audit	20th August 2022
Corrected	

Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Unresolved
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

ULTW - Transfers Liquidity to Team Wallet

Criticality	minor
Location	contract.sol#L553, 560,435
Status	Unresolved

Description

The contract owner has the authority to transfer funds without limit to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling the clearStuckToken and clearStuckBalance methods.

```
function clearStuckToken(address tokenAddress, uint256 tokens) public onlyOwner
returns (bool) {
    if(tokens == 0){
        tokens = IBEP20(tokenAddress).balanceOf(address(this));
    }
    return IBEP20(tokenAddress).transfer(msg.sender, tokens);
}

function clearStuckBalance(uint256 amountPercentage, address _ReceiverStuck)
external onlyOwner {
    uint256 amountBNB = address(this).balance;
    payable(_ReceiverStuck).transfer(amountBNB * amountPercentage / 100);
}
```

Furthermore, The contract owner can take advantage of the method triggerBuyback and transfer tokens from the contract balance directly into the Staking address.

```
function triggerBuyback(uint256 amount, bool triggerBuybackMultiplier)
external onlyOwner() {
    buyTokens(amount, Staking);
    if(triggerBuybackMultiplier){
        buybackMultiplierTriggeredAt = block.timestamp;
        emit BuybackMultiplierActive(buybackMultiplierLength);
    }
}
```

Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may volatile the token's price.

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

CriticalMediumMinor

Severity	Code	Description	Status
•	ZD	Zero Division	Unresolved
•	STC	Succeeded Transfer Check	Unresolved
•	L01	Public Function could be Declared External	Unresolved
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved

ZD - Zero Division

Criticality	minor
Location	contract.sol#L382
Status	Unresolved

Description

The contract is using variables that may be set to zero as denominators. As a result, the transactions will revert.

```
uint256 amountToLiquify =
swapThreshold.mul(dynamicLiquidityFee).div(totalBuyFee).div(2);
```

Recommendation

The contract should prevent totalBuyFee to be set to zero or should not allow to execute the corresponding statements.

STC - Succeeded Transfer Check

Criticality	minor
Location	contract.sol#L407
Status	Unresolved

Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
(bool success, /* bytes memory data */) =
payable(marketingFeeReceiver).call{value: amountBNBMarketing, gas: 30000}("");
```

Recommendation

The contract should check if the result of the transfer methods is successful.



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L154,158,170
Status	Unresolved

Description

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

authorize
unauthorize
transferOwnership

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L185,187,184,186,193
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

DEAD
Staking
WBNB
ZERO
_totalSupply

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L91,496,508,514,519,544,560,184,185,186,187,189,190,191,193,19 4,196,197,203,205,213
Status	Unresolved

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
_liquidityFee
_StakingFee
_marketingFee
_SportyInsurancePool
_feeDenominator
_totalSellFee
_autoLiquidityReceiver
_marketingFeeReceiver
...
```

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#L466,482,496,514,519,549
Status	Unresolved

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.

```
buybackMultiplierNumerator = numerator
_maxTxAmount = amount
liquidityFee = _liquidityFee
swapThreshold = _amount
targetLiquidity = _target
launchedAt = launched_
```

Recommendation

Emit an event for critical parameter changes.

L12 - Using Variables before Declaration

Criticality	minor
Location	contract.sol#L428,459
Status	Unresolved

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.

e reason

Recommendation

The variables should be declared before any usage of them.

L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L459,428
Status	Unresolved

Description

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

reason e

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
IBEP20	Interface			
IBEI 20	totalSupply	External		_
	decimals	External		
	symbol	External		
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
IDEXEactory	Interface			
IDEXFactory	createPair	External	✓	_
	Creater an	External	•	-
IDEXRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-



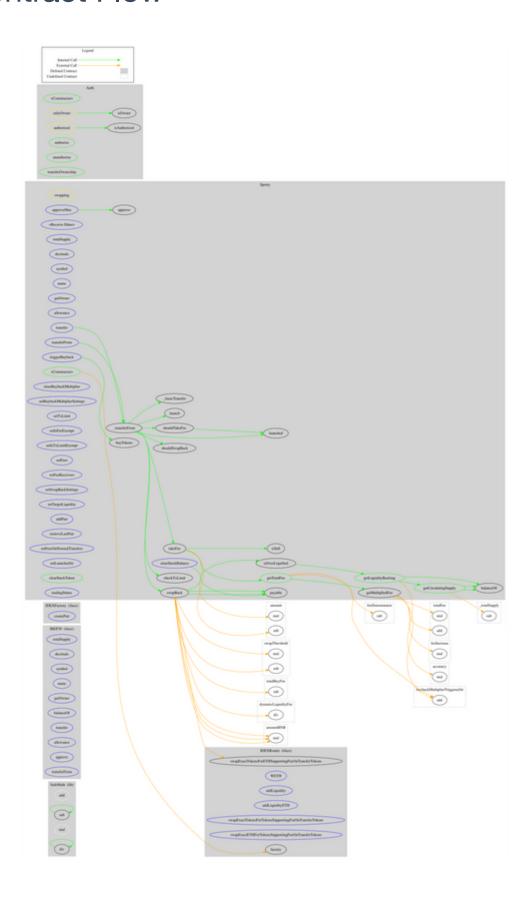
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
Auth	Implementation			
	<constructor></constructor>	Public	✓	-
	authorize	Public	✓	onlyOwner
	unauthorize	Public	✓	onlyOwner
	isOwner	Public		-
	isAuthorized	Public		-
	transferOwnership	Public	1	onlyOwner
Sporty	Implementation	IBEP20, Auth		
	<constructor></constructor>	Public	1	Auth
	<receive ether=""></receive>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	1	-
	approveMax	External	1	-
	transfer	External	1	-
	transferFrom	External	1	-
	_transferFrom	Internal	1	
	_basicTransfer	Internal	1	
	checkTxLimit	Internal		
	shouldTakeFee	Internal		
	getTotalFee	Public		-
	getMultipliedFee	Public		-
	takeFee	Internal	√	



isSell	Internal		
shouldSwapBack	Internal		
swapBack	Internal	1	swapping
triggerBuyback	External	1	onlyOwner
clearBuybackMultiplier	External	1	onlyOwner
buyTokens	Internal	1	swapping
setBuybackMultiplierSettings	External	1	onlyOwner
launched	Internal		
launch	Internal	1	
setTxLimit	External	1	onlyOwner
setIsFeeExempt	External	1	onlyOwner
setIsTxLimitExempt	External	1	onlyOwner
setFees	External	1	onlyOwner
setFeeReceivers	External	1	onlyOwner
setSwapBackSettings	External	1	onlyOwner
setTargetLiquidity	External	1	onlyOwner
getCirculatingSupply	Public		-
getLiquidityBacking	Public		-
isOverLiquified	Public		-
addPair	External	1	onlyOwner
removeLastPair	External	1	onlyOwner
setFeesOnNormalTransfers	External	1	onlyOwner
setLaunchedAt	External	1	onlyOwner
clearStuckToken	Public	1	onlyOwner
clearStuckBalance	External	1	onlyOwner
tradingStatus	External	1	onlyOwner



Contract Flow





Summary

The Smart Contract analysis reported one minor severity issue. The contract owner has the authority to transfer funds to the team's wallet. Other than that, the contract owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. The contract fees can be changed up to 15%.

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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