



Cyberscope

Audit Report

Sportsverse

August 2022

Type BEP20

Network BSC

Address 0xd173d693Cd7a4beC3A09aa0529C61C822cD6A046

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Table of Contents

Table of Contents	1
Contract Review	3
Source Files	3
Audit Updates	3
Contract Analysis	4
Contract Diagnostics	5
CR - Code Repetition	6
Description	6
Recommendation	6
L01 - Public Function could be Declared External	7
Description	7
Recommendation	7
L02 - State Variables could be Declared Constant	8
Description	8
Recommendation	8
L04 - Conformance to Solidity Naming Conventions	9
Description	9
Recommendation	9
L07 - Missing Events Arithmetic	10
Description	10
Recommendation	10
L09 - Dead Code Elimination	11
Description	11
Recommendation	11
Contract Functions	12
Contract Flow	15

Domain Info	16
Summary	17
Disclaimer	18
About Cyberscope	19

Contract Review

Contract Name	Sportsverse
Compiler Version	v0.8.15+commit.e14f2714
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xd173d693Cd7a4beC3A09aa0529C61C822cD6A046
Symbol	\$SV
Decimals	18
Total Supply	1,000,000,000
Domain	https://sportsverse.me

Source Files

Filename	SHA256
contract.sol	8dd97479449f45b96cb2e7216ba10e6698edbeca0f4851c7467c5a8db2f4c2bb

Audit Updates

Initial Audit	3rd August 2022
Corrected	9th August 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
●	CR	Code Repetition
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic
●	L09	Dead Code Elimination

CR - Code Repetition

Criticality	minor
Location	contract.sol#L630,645,665

Description

There are code segments that are repetitive in the contract. Those segments increase the code size of the contract unnecessarily.

The `_transfer` method can be optimized. The following code segment is repetitive.

```
_balances[sender] -= amount;  
_balances[recipient] += transferAmount;  
emit Transfer(sender, recipient, transferAmount);  
return;
```

This code segment is repetitive on `collectBuyFee`, `collectSellFee` methods.

```
uint256 _referralProgram = amount.mul(buyReferralProgramFee).div(10**(_feeDecimal + 2));  
transferAmount=transferAmount.sub(_referralProgram);  
_balances[ReferralAndFundsWallet] += _referralProgram;  
  
emit Transfer(account, ReferralAndFundsWallet , _referralProgram);
```

Recommendation

Create an internal function that contains the code segment and remove it from all the sections.

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L572,513,550,291,494,468,706,501,521,306,296,591,532,317,310,460,302

Description

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

```
getUnlockTime  
name  
lock  
unlock  
approve  
decreaseAllowance  
transferOwnership  
getTime  
allowance  
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L423,416

Description

Constant state variables should be declared constant to save gas.

```
_feeDecimal  
totalTaxFee
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality

minor

Location

contract.sol#L736,724,399,398,412,416,706,336,731

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.

```
_referralAndFundsWallet  
_ReferralProgramFee  
WETH  
_marketingWallet  
_AutoBurnAndBuyBackFee  
Burn  
_feeDecimal  
ReferralAndFundsWallet  
_maxAmount  
...
```

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#L736,731

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.

```
buyReferralProgramFee = _ReferralProgramFee  
sellmarketingAndMaintananceFee = _marketingAndMaintananceFee
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality

minor

Location

contract.sol#L160

Description

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

`ceil`

Recommendation

Remove unused functions.

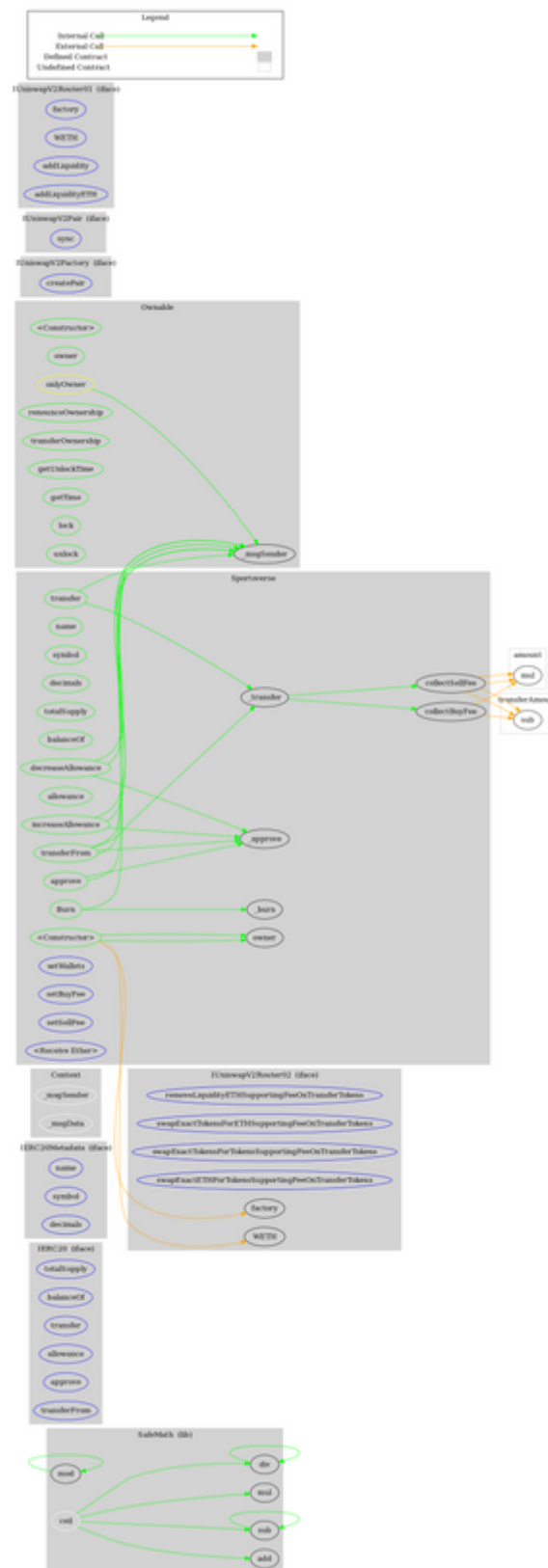
Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
	ceil	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		

Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	getUnlockTime	Public		-
	getTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
IUniswapV2Factory	Interface			
	createPair	External	✓	-
IUniswapV2Pair	Interface			
	sync	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-

Sportsverse	Implementation	Ownable, IERC20, IERC20Metadata		
	<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	✓	
	collectBuyFee	Private	✓	
	collectSellFee	Private	✓	
	_approve	Internal	✓	
	Burn	Public	✓	-
	_burn	Internal	✓	
	setWallets	External	✓	onlyOwner
	setBuyFee	External	✓	onlyOwner
	setSellFee	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-

Contract Flow



Domain Info

Domain Name	sportsverse.me
Registry Domain ID	D425500000339768159-AGRS
Creation Date	2022-07-28T20:47:56Z
Updated Date	2022-07-28T20:47:59Z
Registry Expiry Date	2023-07-28T20:47:56Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	www.namecheap.com
Registrar	NameCheap, Inc.
Registrar IANA ID	1068

The domain was created 12 months before the creation of the audit.

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

Summary

Sportsverse 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 24% fees.

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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>