



# Cyberscope

## Audit Report

# Love

May 2022

Type       BEP20

Network     BSC

Address     0x9d7e7eeff20ca382841708bfa5f67adb2b84d1dd

Audited by  © cyberscope

# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>Contract Review</b>	<b>2</b>
<b>Source Files</b>	<b>2</b>
<b>Audit Updates</b>	<b>2</b>
<b>Contract Analysis</b>	<b>3</b>
<b>Contract Diagnostics</b>	<b>4</b>
<b>L01 - Public Function could be Declared External</b>	<b>5</b>
<b>Description</b>	<b>5</b>
<b>Recommendation</b>	<b>5</b>
<b>L02 - State Variables could be Declared Constant</b>	<b>6</b>
<b>Description</b>	<b>6</b>
<b>Recommendation</b>	<b>6</b>
<b>L04 - Conformance to Solidity Naming Conventions</b>	<b>7</b>
<b>Description</b>	<b>7</b>
<b>Recommendation</b>	<b>7</b>
<b>L07 - Missing Events Arithmetic</b>	<b>8</b>
<b>Description</b>	<b>8</b>
<b>Recommendation</b>	<b>8</b>
<b>Contract Functions</b>	<b>9</b>
<b>Contract Flow</b>	<b>11</b>
<b>Summary</b>	<b>12</b>
<b>Disclaimer</b>	<b>13</b>
<b>About Cyberscope</b>	<b>14</b>

## Contract Review

<b>Contract Name</b>	Love
<b>Compiler Version</b>	v0.8.5+commit.a4f2e591
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x9d7e7EeFF20CA382841708BFa5F67aDb2B84D1dD">https://bscscan.com/token/0x9d7e7EeFF20CA382841708BFa5F67aDb2B84D1dD</a>
<b>Symbol</b>	LOVE
<b>Decimals</b>	9
<b>Total Supply</b>	3,000,000,000
<b>Domain</b>	

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	af70fac2d0da1108756bf6d57e4d28940a51405600ef0e84d6857aa871c80016

## Audit Updates

<b>Initial Audit</b>	16th May 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
●	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#L281,288,309,444

### Description

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

```
getCirculatingSupply  
transferOwnership  
unauthorize  
authorize
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L328,329,334,338,339

### Description

Constant state variables should be declared constant to save gas.

```
sellFee  
buyFee  
_totalSupply  
ZERO  
DEAD
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L428,432,436,328,329,331,332,333,334,335,336,340

### 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  
_allowances  
_balances  
_totalSupply  
_decimals  
_symbol  
_name  
ZERO  
DEAD  
...
```

### 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#L436

### 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.

```
feeThreshold = _amount
```

### Recommendation

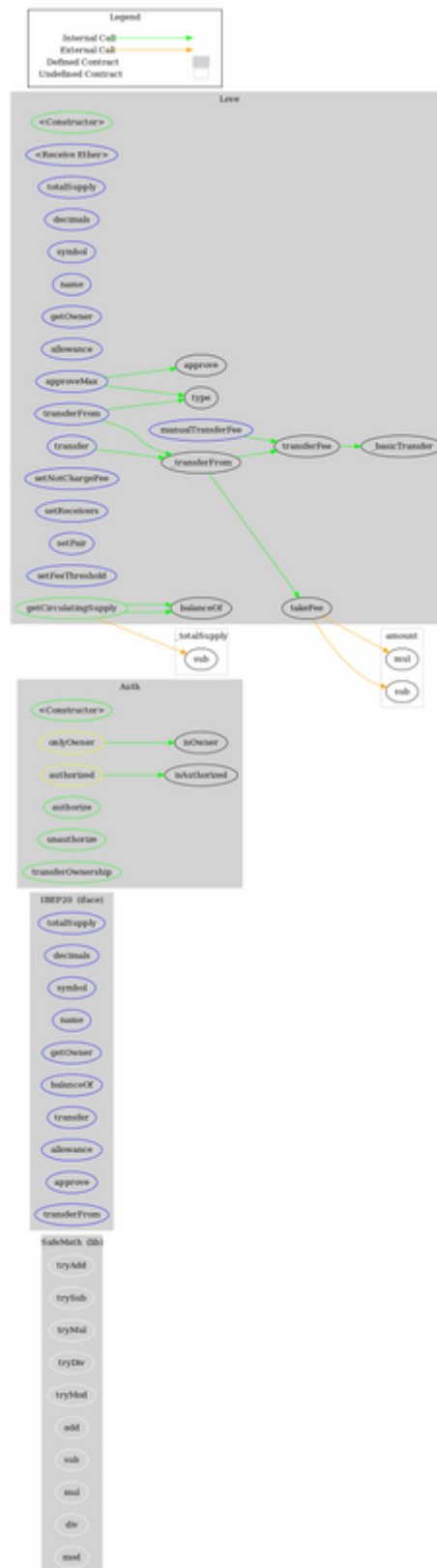
Emit an event for critical parameter changes.

# 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>IBEP20</b>	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	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>Love</b>	Implementation	IBEP20, Auth		
	<Constructor>	Public	✓	Auth
	<Receive Ether>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	approveMax	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	_transferFrom	Internal	✓	
	_basicTransfer	Internal	✓	
	setNotChargeFee	External	✓	authorized
	takeFee	Internal	✓	
	transferFee	Internal	✓	
	setReceivers	External	✓	authorized
	setPair	External	✓	authorized
	setFeeThreshold	External	✓	authorized
	manualTransferFee	External	✓	authorized
	getCirculatingSupply	Public		-

# Contract Flow



## Summary

Love 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. The fees are 4% for sales and buys and can't be changed.

# 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.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

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.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

## About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Cyberscope 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>