



# Audit Report

## **Calculux Finance**

February 2022

Type	BEP20
Network	BSC
Address	0x587B178d0306586EfcF3D3aFA7A6953FAb150AfF
Audited by	© coinscope

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## Contract Review

<b>Contract Name</b>	CalculuxFinance
<b>Compiler Version</b>	v0.7.0+commit.9e61f92b
<b>Optimization</b>	999999 runs
<b>Licence</b>	
<b>Explorer</b>	<a href="https://bscscan.com/token/0x587B178d0306586EfcF3D3aFA7A6953FAb150AfF">https://bscscan.com/token/0x587B178d0306586EfcF3D3aFA7A6953FAb150AfF</a>
<b>Symbol</b>	CAX
<b>Decimals</b>	18
<b>Total Supply</b>	300,000,000
<b>Source</b>	/contracts/CalculuxFinance.sol, /contracts/interfaces/IBEP20.sol, /contracts/SafeMath.sol, /contracts/SafeBEP20.sol, /contracts/Pausable.sol, /contracts/Ownable.sol, /contracts/Context.sol, /contracts/BEP20Pausable.sol, /contracts/BEP20.sol, /contracts/Address.sol
<b>Domain</b>	calculux.finance

## Audit Updates

<b>Initial Audit</b>	18th February 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
●	L05	Unused State Variable

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contracts/CalculuxFinance.sol#L18,29,44

### Description

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

```
burnFrom  
burn  
withdrawTokens
```

### Recommendation

Use the external attribute for functions never called from the contract

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contracts/CalculuxFinance.sol#L14

### Description

Constant state variables should be declared constant to save gas.

```
_price
```

### Recommendation

Add the constant attribute to state variables that never change.

## L05 - Unused State Variable

**Criticality**

minor

**Location**

contracts/CalculuxFinance.sol#L14

### Description

There are segments that contain unused state variables.

```
_price
```

### Recommendation

Remove unused state variables.



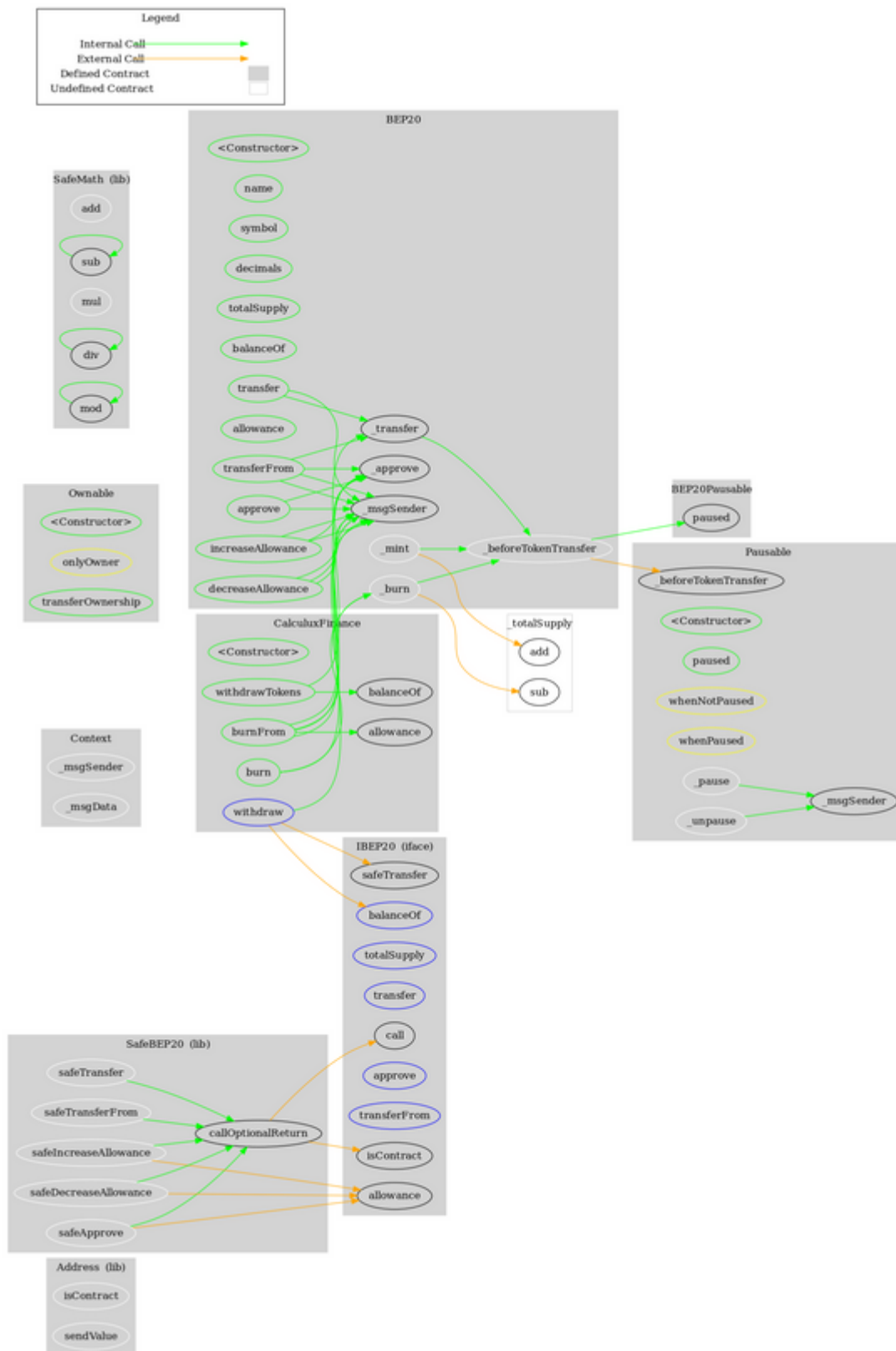
# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Address</b>	Library			
	isContract	Internal		
	sendValue	Internal	✓	
<b>BEP20</b>	Implementation	Context, IBEP20		
	<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	✓	
	_beforeTokenTransfer	Internal	✓	
<b>BEP20Pausable</b>	Implementation	BEP20, Pausable		
	_beforeTokenTransfer	Internal	✓	
<b>CalculuxFinance</b>	Implementation	BEP20Pausable		

	<Constructor>	Public	✓	BEP20
	withdrawTokens	Public	✓	onlyOwner
	burn	Public	✓	-
	burnFrom	Public	✓	-
	withdraw	External	✓	onlyOwner
	withdraw	External	✓	onlyOwner
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>IBEP20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Ownable</b>	Implementation			
	<Constructor>	Public	✓	-
	transferOwnership	Public	✓	onlyOwner
<b>Pausable</b>	Implementation	Context, Ownable		
	<Constructor>	Public	✓	-
	paused	Public		-
	_pause	Internal	✓	onlyOwner whenNotPaused
	_unpause	Internal	✓	onlyOwner whenPaused
<b>SafeBEP20</b>	Library			
	safeTransfer	Internal	✓	
	safeTransferFrom	Internal	✓	
	safeApprove	Internal	✓	

	safeIncreaseAllowance	Internal	✓	
	safeDecreaseAllowance	Internal	✓	
	callOptionalReturn	Private	✓	
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		

# Contract Flow



## Domain Info

<b>Domain Name</b>	calculux.finance
<b>Registry Domain ID</b>	bcc09bf970744f298852326564b267d3-DONUTS
<b>Creation Date</b>	2022-01-25T09:06:06Z
<b>Updated Date</b>	2022-02-01T21:28:41Z
<b>Registry Expiry Date</b>	2023-01-25T09:06:06Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="https://www.namecheap.com/">https://www.namecheap.com/</a>
<b>Registrar</b>	NameCheap, Inc.
<b>Registrar IANA ID</b>	1068

The domain has been created 25 days before the creation of the audit. It will expire in 11 months.

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

## Summary

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 contract is a pure implementation of the ERC20 interface with some minor additions.

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The Coinscope.co team

<https://www.coinscope.co>