



Cyberscope

# Audit Report

## **POLYCOIN**

June 2022

Type           BEP20

Network       BSC

Address       0x1e296b3d1c5f874ffc0e39a82a8130a1ab233081

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## Contract Review

<b>Contract Name</b>	POLYCOIN
<b>Compiler Version</b>	v0.8.14+commit.80d49f37
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0x1e296b3d1c5f874ffc0e39a82a8130a1ab233081">https://bscscan.com/token/0x1e296b3d1c5f874ffc0e39a82a8130a1ab233081</a>
<b>Symbol</b>	PLYC
<b>Decimals</b>	9
<b>Total Supply</b>	10,000,000,000,000
<b>Domain</b>	POLYCOIN.TK

## Source FiPLYC

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	611a4714013aca70cf00c4a44012529accae10ca65c5d d37c0a35f5cfd70a3b1

## Audit Updates

<b>Initial Audit</b>	19th June 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

## MT - Mint Tokens

<b>Criticality</b>	critical
<b>Location</b>	contract.sol#L553

### Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the `mint` function. As a result the contract tokens will be highly inflated.

```
function mint(uint256 amount) public onlyOwner {  
    _mint(msg.sender, amount);  
}
```

### Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

Severity	Code	Description
●	CO	Code Optimization
●	L01	Public Function could be Declared External
●	L03	Redundant Statements

## CO - Code Optimization

**Criticality**

minor

**Location**

contract.sol#L325, 149, 606

### Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes PLVCs memory, executes more rapidly, or performs fewer operations.

```
_totalSupply;
```

Also, the contract uses the `Pausable` contract, in which the `_paused` variable is defined. The owner can modify that value by calling the `pause` and `unpause` functions, but except these functions, the contract does not use any other functionality of the `Pausable` contract.

```
bool private _paused;
```

```
function pause() public onlyOwner {  
    _pause();  
}  
  
function unpause() public onlyOwner {  
    _unpause();  
}
```

### Recommendation

Rewrite some code segments so the runtime will be more performant.

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L261,270,340,348,372,379,391,402,413,431,477,496,553,580,606,610

### Description

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

```
unpause
pause
burn
mint
decreaseAllowance
increaseAllowance
transferFrom
approve
allowance
...
```

### Recommendation

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



## L03 - Redundant Statements

**Criticality**

minor

**Location**

contract.sol#L325

### Description

Detect the usage of redundant statements that have no effect.

POLYCOIN

### Recommendation

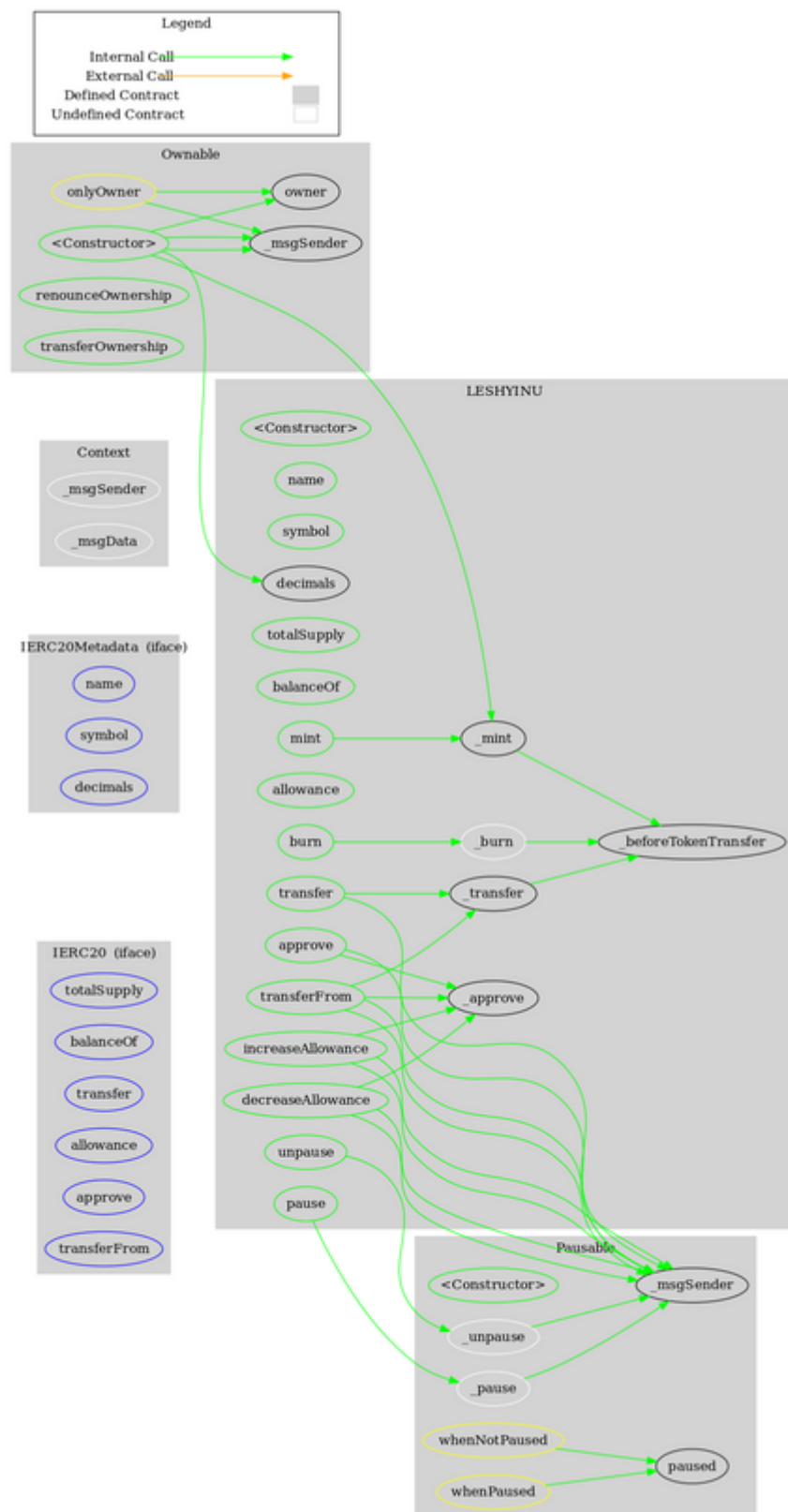
Remove redundant statements if they congest code but offer no value.

# 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>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Pausable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	paused	Public		-
	_pause	Internal	✓	whenNotPaused
	_unpause	Internal	✓	whenPaused
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner

	transferOwnership	Public	✓	onlyOwner
<b>POLYCOIN</b>	Implementation	Context, IERC20, IERC20Met adata, Ownable, Pausable		
	<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	✓	
	mint	Public	✓	onlyOwner
	_burn	Internal	✓	
	burn	Public	✓	onlyOwner
	_approve	Internal	✓	
	pause	Public	✓	onlyOwner
	unpause	Public	✓	onlyOwner
	_beforeTokenTransfer	Internal	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	POLYCOIN.TK
<b>Registry Domain ID</b>	2706661537187_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-10-10T17:02:43Z
<b>Updated Date</b>	2022-10-10T17:02:43Z
<b>Registry Expiry Date</b>	2022-10-10T17:02:43Z
<b>Registrar WHOIS Server</b>	whois.hostinger.com
<b>Registrar URL</b>	<a href="https://www.hostinger.com">https://www.hostinger.com</a>
<b>Registrar</b>	Hostinger, UAB
<b>Registrar IANA ID</b>	1636456666

The domain has been created 14 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

The Smart Contract analysis reported one critical severity issue. The contract owner has the authority to mint tokens. The contract tokens will be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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The Cyberscope.tk team disclaims any liability for the resulting losses.

# About Cyberscope.tk

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

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.tk 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.tk team

<https://www.Cyberscope.tk>