Cyberscope

Audit Report

Crazy Treasure Token

September 2022

Type	BEP20
Network	BSC
Address	0x47cA78c8B49122DCaBeE58E339Ff98D51B6ad4b3
Audited by	© cyberscope

Table of Contents

Contract Review

Contract Name	CTTToken
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	GNU GPLv3
Explorer	https://bscscan.com/token/0x47cA78c8B49122DCaBeE58E339Ff98D51B6ad4b3
Symbol	CTT
Decimals	18
Total Supply	700,000,000
Domain	https://www.crazy-treasure.com

Source Files

Filename	**SHA256**
contract.sol	f251dfdef099198066db0f982294aac4d2f743a0ac37f4777931d2969f01b017

Audit Updates

Initial Audit	29th September 2022
Corrected	

Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

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	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Contract Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
	STC	Succeeded Transfer Check	Unresolved
	MC	Missing Check	Unresolved
	L01	Public Function could be Declared External	Unresolved
	L13	Divide before Multiply Operation	Unresolved

STC - Succeeded Transfer Check

Criticality	minor / informative
Location	contract.sol#L420,430
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.

```
token.transfer(msg.sender, token.balanceOf(address(this)));
//
token.transfer(msg.sender, tokensToWithdraw);
```

Recommendation

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

MC - Missing Check

Criticality	minor / informative
Location	contract.sol#L609,404
Status	Unresolved

Description

The contract is processing variables that have not properly sanitized and checked that they form the proper shape. These variables may produce vulnerability issues.

The constructor mints tokens according to the arguments. The initialAccounts length should be equal with the initialBalances length. Each initialBalances entry should be greater than zero.

```
constructor() payable ERC20("Crazy Treasure Token", "CTT") {
        //
        //
        //
        for(uint8 i = 0; i < accounts.length; i++) {
            require(accounts[i] != address(0));
            _mint(accounts[i], supplies[i]);
        }
}
```

The values that are initialized on the constructor are used as diviators in the expressions. For instance, the interval property should not be zero since it will revert the transactions.

```
constructor(address _beneficiary, uint256 _start, uint256 _duration, uint256
_interval,uint256 _initialTokens) {
        beneficiary = _beneficiary;
        start = _start;
        duration = _duration;
        interval = _interval;
        initialTokens = _initialTokens;
}
```

Recommendation

The contract should properly check the variables according to the required specifications.

L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L408,584,341,521,702,625,504,535,547,413,606,349,496,687,528,566
Status	Unresolved

Description

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

```
setToken
transferFrom
renounceOwnership
decimals
burnFrom
decreaseAllowance
symbol
balanceOf
transfer
...
```

Recommendation

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

L13 - Divide before Multiply Operation

Criticality	minor / informative
Location	contract.sol#L413
Status	Unresolved

Description

Performing divisions before multiplications may cause lose of prediction.

```
tokensByPart = initialTokens.div(parts)
```

Recommendation

The multiplications should be prior to the divisions.

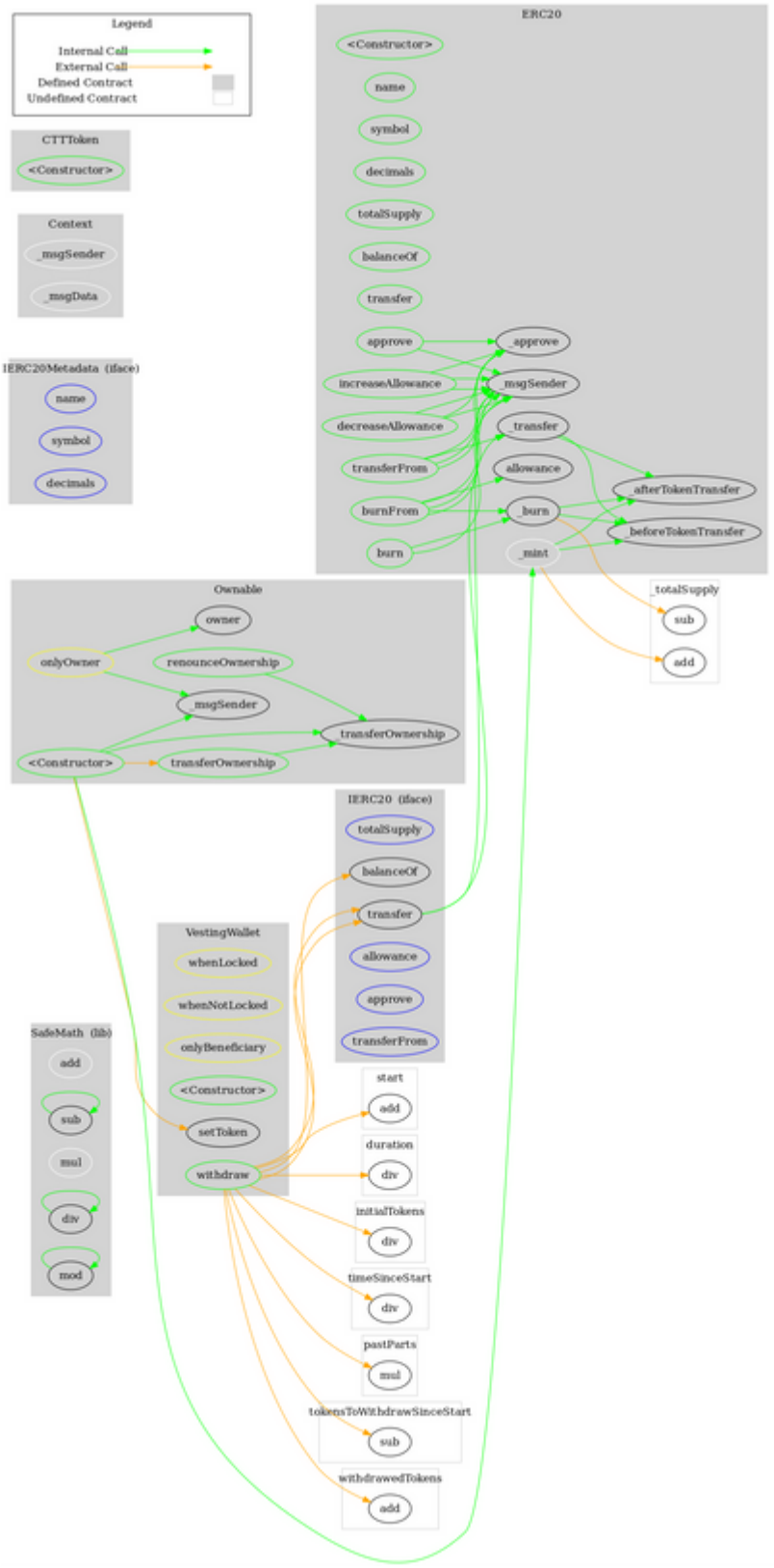
Contract Functions

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		
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
	_transferOwnership	Internal	✓	
VestingWallet	Implementation	Ownable		
	<Constructor>	Public	✓	-
	setToken	Public	✓	onlyOwner whenNotLocked
	withdraw	Public	✓	onlyBeneficiary whenLocked
ERC20	Implementation	Context, 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	✓	
	_mint	Internal	✓	
	burn	Public	✓	-
	burnFrom	Public	✓	-
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	

	_afterTokenTransfer	Internal	✓	
CTTToken	Implementation	ERC20, Ownable		
	<Constructor>	Public	Payable	ERC20

Contract Flow



Domain Info

Domain Name	crazy-treasure.com
Registry Domain ID	2689177276_DOMAIN_COM-VRSN
Creation Date	2022-04-14T03:04:01Z
Updated Date	2022-04-14T03:20:20Z
Registry Expiry Date	2023-04-14T03:04:01Z
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain was created 6 months before the creation of the audit. It will expire in 7 months.

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

Summary

Crazy Treasure 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.

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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