



BCD Token

RugfreeCoins Verified on January 16th, 2024

Overview

- X No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- ▼ The owner can't pause trading once it's enabled
- The owner can't change fees.
- The owner can't blacklist wallets.
- The owner can't set a max wallet limit
- The owner can't claim the contract's balance of its own token.

! HIGH SEVERITY ISSUES

The owner can Mint new tokens

```
function mint(address _to, uint256 _amount) public onlyOwner {
    _mint(_to, _amount);
}
```

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Audit details



Audited project BCD Token



Contract Address

0x6D5AA9cd765a2668F722c68af1d3f783e8eB9E6b



Client contact

BCD Token Team



Blockchain

Binance Smart chain



Project website

https://blockchainpro.vip

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the BCD Token Team to perform an audit of the smart contract.

https://bscscan.com/token/0x6d5aa9cd765a2668f722c68af1d3f783e8eb9e6b

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 0% tax when buying & selling

Target market and the concept

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part in the BCD token ecosystem.
- Anyone who's interested in taking part in the future plans of BCD Token.
- Anyone who's interested in making financial transactions with any other party BCD Token as the currency.

Potential to grow with score points

→ Project efficiency	8 / 10
** Project uniqueness	8 / 10
Information quality	8 / 10
👌 Service quality	8 / 10
System quality	8 / 10
impact on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
	8 / 10
Smart contract functionality assessment	10 / 10
▼ Total Score	8.3 / 10

Contract details

Token contract details for 16th of January 2024

Contract name	BCD
Contract address	0x6D5AA9cd765a2668F722c68af1d3f783e8eB9E6b
Token supply	39,999,999
Token ticker	BCD
Decimals	18
Token holders	1
Transaction count	2
Contract deployer address	0xC27403255045029f58b5c2417595A986938B75Ae
Contract's current owner address	0xC27403255045029f58b5c2417595A986938B75Ae

Contract code function details

Nº	Category	Item	Result
		ERC20 Token standards	PASS -
		Compile errors	PASS +
		Compiler version security	PASS -
		Visibility specifiers	PASS -
		Gas consumption	PASS +
1	Coding conventions	SafeMath features	PASS +
		Fallback usage	PASS +
		tx.origin usage	PASS +
		Deprecated items	PASS +
		Redundant code	PASS -
		Overriding variables	PASS -
	2 Function call audit	Authorization of function call	PASS +
2		Low level function (call/delegate call) security	PASS -
_		Returned value security	PASS -
		Self destruct function security	PASS •
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	PASS -
		Business implementation	PASS +
4	Integer overflow/underflow		PASS +
5	Reentrancy		PASS +
6	Exceptional reachable state		PASS +
7	Transaction ordering dependence		PASS +
8	Block properties dependence		PASS +
9			PASS +
10	DoS (Denial of Service)		PASS •
11	Token vesting implementation		PASS +
12	Fake deposit		PASS +
13	Event security		PASS +

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
BCD	Implementation	ERC20Burnable ERC20Capped, Ownable		
L		Public !	•	ERC20 ERC20Capped
L	mint	Public !		onlyOwner
L	_beforeTokenTransfer	Internal 🔒	•	
'				
ERC20Capped	Implementation	ERC20		
L		Internal 🔒	•	
L	сар	Public !		NO !
L	_beforeTokenTransfer	Internal 🔒		
'		'	1	1
ERC20 Burnable	Implementation	Context, ERC20		
L	burn	Public !		NO !
L	burnFrom	Public !	•	NO !
Ownable	Implementation	Context		
L		Internal 🔒		
L	owner	Public !		NO !
L	renounceOwnership	Public !	•	onlyOwner
L	transferOwnership	Public !		onlyOwner

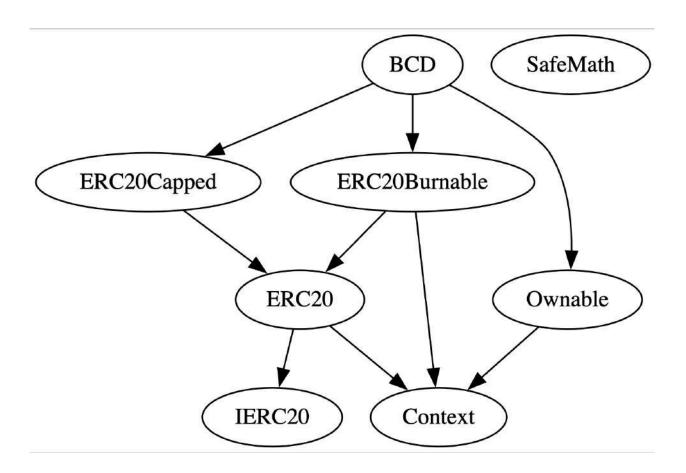
ERC20	Implementation	Context, IERC20		
L		Public !		NO.
				NO !
L	name	Public		NO
L	symbol	Public		NO
L	decimals	Public !		NO
L	totalSupply	Public !		NO
L	balanceOf	Public !		NO
L	transfer	Public !		NO !
L	allowance	Public !		NO
L	approve	Public !	•	NO
L	transferFrom	Public !		NO .
L	increaseAllowance	Public !		NO
L	decreaseAllowance	Public !		NO
L	_transfer	Internal 🔓		
L	_mint	Internal 🔒		
L	_burn	Internal 🔒		
L	_approve	Internal 🔒		
L	_setupDecimals	Internal 🔒		
L	_beforeTokenTransfer	Internal 🔒		
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
IERC20	Interface			
L	totalSupply	External		NO
L	balanceOf	External !		NO
L	transfer	External		NO

L	allowance	External	NO !
L	approve	External	NO !
L	transferFrom	External	NO !
SafeMath	Library		
L	tryAdd	Internal 🔒	
L	trySub	Internal 🔒	
L	tryMul	Internal 🔒	
L	tryDiv	Internal 🔒	
L	tryMod	Internal 🔒	
L	add	Internal 🔒	
L	sub	Internal 🔒	
L	mul	Internal 🔒	
L	div	Internal 🔒	
L	mod	Internal 🔒	
L	sub	Internal 🔒	
L	div	Internal 🔒	
L	mod	Internal 🔒	

Legend

Symbol	Meaning
	Function can modify state
(S)	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

The owner can Mint new tokens

```
function mint(address _to, uint256 _amount) public onlyOwner {
    _mint(_to, _amount);
}
```

- Medium severity issues
 No medium severity issues found
- Low severity issuesNo high severity issues found

Owner privileges

The owner can Mint new tokens

```
function mint(address _to, uint256 _amount) public onlyOwner {
    _mint(_to, _amount);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

