



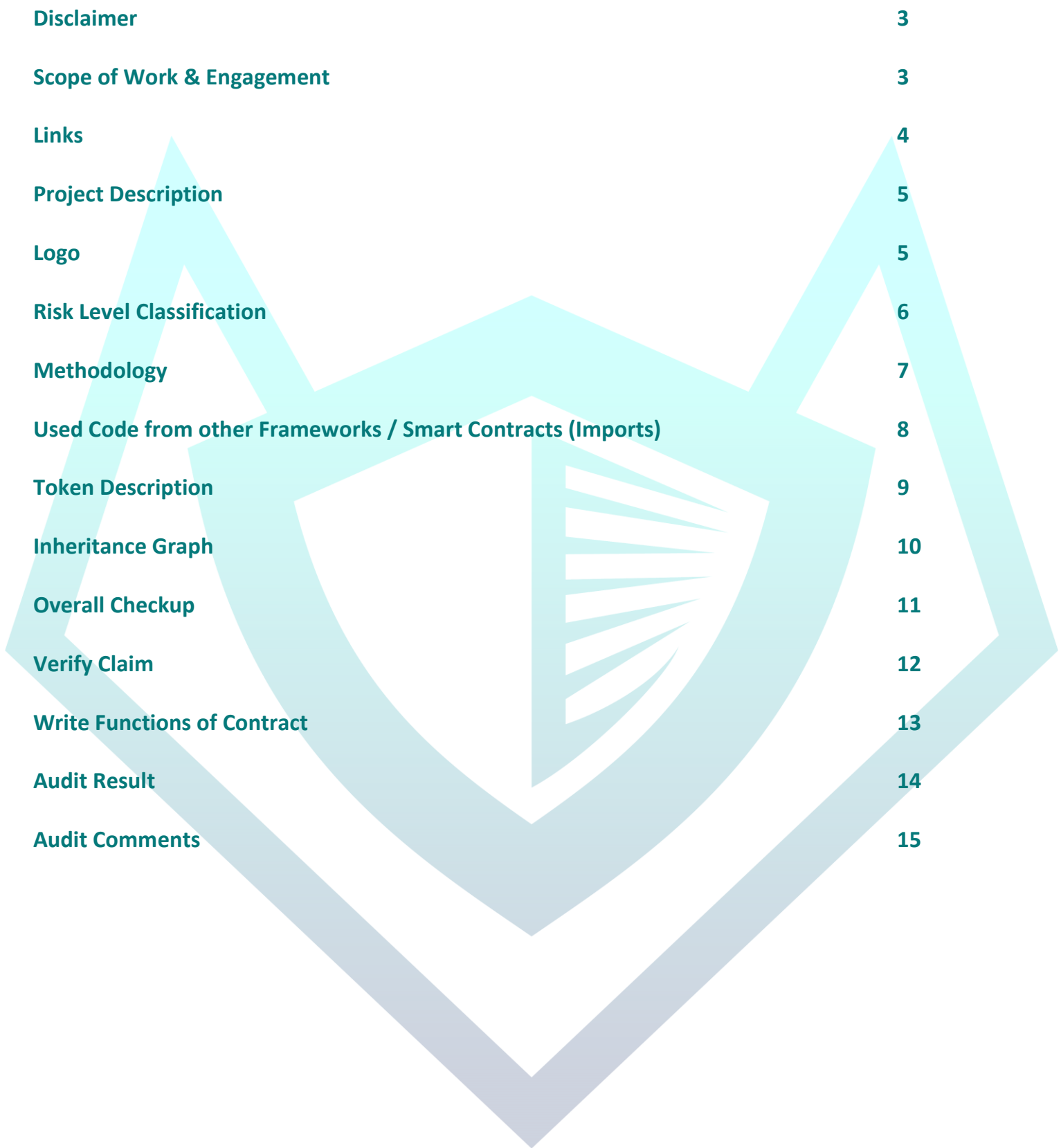
# CONTRACT WOLF

**Blockchain Security - Smart Contract Audits**

## Security Assessment

April 16, 2022





# Disclaimer

**ContractWolf.io** audits and reports should not be considered as a form of project's "advertisement" and does not cover any interaction and assessment from "project's contract" to "external contracts" such as Pancakeswap or similar.

**ContractWolf** does not provide any warranty on its released reports.

**ContractWolf** should not be used as a decision to invest into an audited project and is not affiliated nor partners to its audited contract projects.

**ContractWolf** provides transparent report to all its "clients" and to its "clients participants" and will not claim any guarantee of bug-free code within it's **SMART CONTRACT**.

**ContractWolf** presence is to analyze, audit and assess the client's smart contract's code.

Each company or projects should be liable to its security flaws and functionalities.

## Scope of Work

**Bare Bone Club** team agreed and provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract.

The goal of this engagement was to identify if there is a possibility of security flaws in the implementation of the contract or system.

**ContractWolf** will be focusing on contract issues and functionalities along with the projects claims from smart contract to their website, whitepaper and repository which has been provided by **Bare Bone Club**.

# Network

Binance Smart Chain (BEP20)

## Contract link

<https://bscscan.com/address/0x3B8b2530Aa2015f8a720a82B5a2A463510BfE9A5>

## Website

<https://www.barebone.club/>

## Marketplace

<https://barebonenft.club/>

## Telegram

<https://t.me/bareboneclub>

## Twitter

[https://twitter.com/BareBone\\_Club](https://twitter.com/BareBone_Club)

## Reddit

<https://www.reddit.com/user/BareBoneClub>

## Discord

<https://discord.com/invite/P5zrRTqPV9>

## GitHub

<https://github.com/BareBoneClub>

## Description

**Bare Bone Club** is a unique reward ecosystem offering multiple ways of passive and active income for any crypto user. \$BBC Allows you to forget about all the hassle and research you carry out on daily basis like trading platforms, yield farms or even simple staking pools.

## Logo



# Risk Level Classification

Risk Level represents the classification or the probability that a certain function or threat that can exploit vulnerability and have an impact within the system or contract.

Risk Level is computed based on CVSS Version 3.0

Level	Value	Vulnerability
Critical	9 - 10	An Exposure that can affect the contract functions in several events that can risk and disrupt the contract
High	7 - 8.9	An Exposure that can affect the outcome when using the contract that can serve as an opening in manipulating the contract in an unwanted manner
Medium	4 - 6.9	An opening that could affect the outcome in executing the contract in a specific situation
Low	0.1 - 3.9	An opening but doesn't have an impact on the functionality of the contract
Informational	0	An opening that consists of information's but will not risk or affect the contract

# Auditing Approach

Every line of code along with its functionalities will undergo manual review to check its security issues, quality, and contract scope of inheritance. The manual review will be done by our team that will document any issues that there were discovered.

## Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:

- Review of the specifications, sources, and instructions provided to ContractWolf to make sure we understand the size, scope, and functionality of the smart contract.
- Manual review of code, our team will have a process of reading the code line-by-line with the intention of identifying potential vulnerabilities and security flaws.

2. Testing and automated analysis that includes:

- Testing the smart contract functions with common test cases and scenarios, to ensure that it returns the expected results.

3. Best practices review, the team will review the contract with the aim to improve efficiency, effectiveness, clarifications, maintainability, security, and control within the smart contract.

4. Recommendations to help the project take steps to secure the smart contract.

# Used Code from other Frameworks/Smart Contracts (Direct Imports)

## Imported Packages

- SafeMathInt
- SafeMath
- IERC20
- IPancakeSwapPair
- IPancakeSwapRouter
- IPancakeSwapFactory
- IDividendDistributor
- DividendDistributor
- ERC20Detailed
- BareBoneClub



# Description

Optimization enabled: Yes

Decimal: 5

Symbol: BBC

Max / Total supply: 325,000

## Capabilities

### Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	3	2	5	1

### Exposed Functions

Version	Public	Private	External	Internal
1.0	11	0	96	29

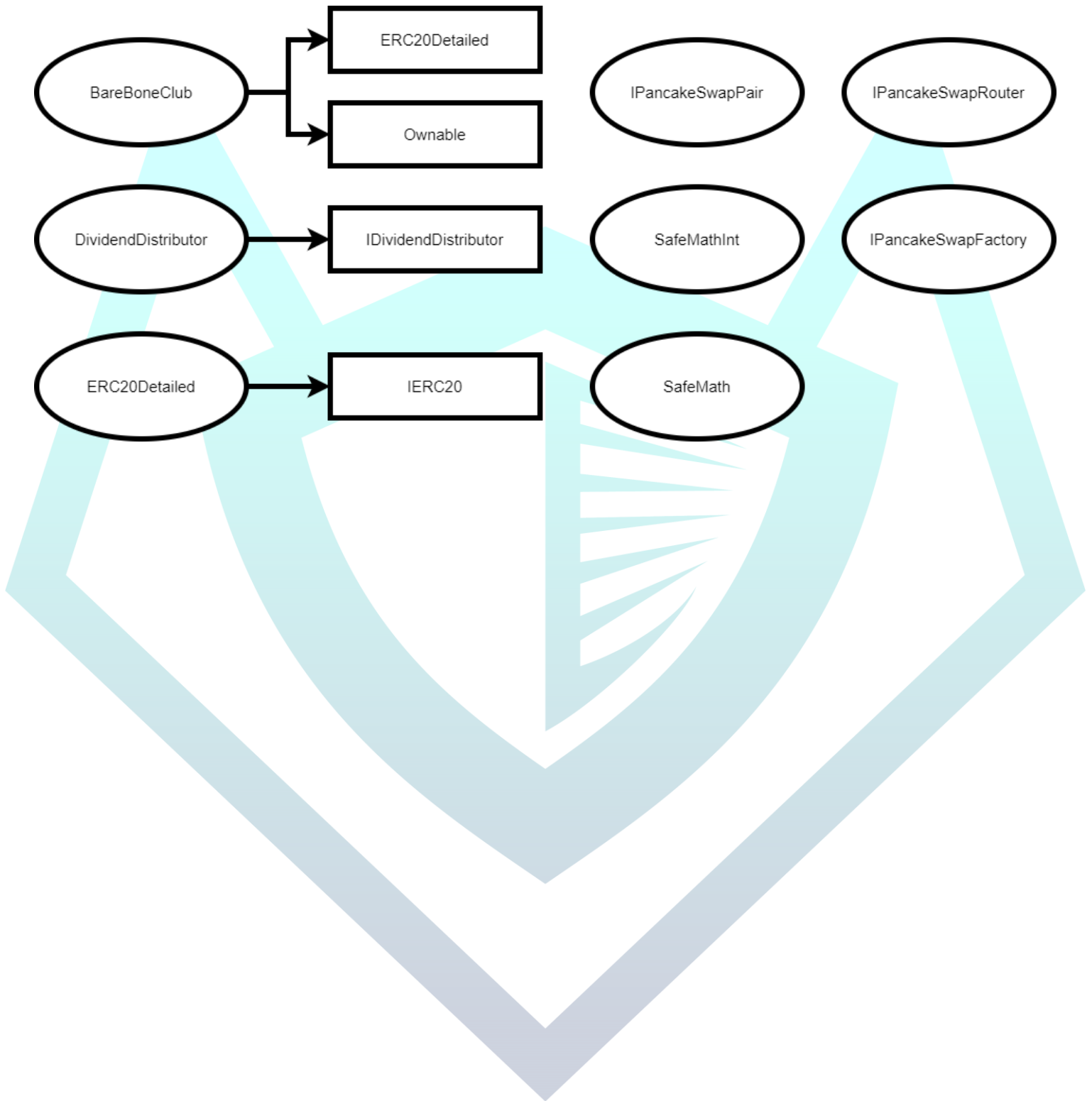
### State Variables

Version	Total	Public
1.0	47	35

### Capabilities

Version	Solidity Versions Observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	v0.7.4		Yes	Yes	No

# Inheritance Graph



## Correct implementation of Token Standard

Tested	Verified
✓	✓

## Overall Checkup (Smart Contract Security)

Tested	Verified
✓	✓

Function	Description	Exist	Tested	Verified
TotalSupply	Information about the total coin or token supply	✓	✓	✓
BalanceOf	Details on the account balance from a specified address	✓	✓	✓
Transfer	An action that transfers a specified amount of coin or token to a specified address	✓	✓	✓
TransferFrom	An action that transfers a specified amount of coin or token from a specified address	✓	✓	✓
Approve	Provides permission to withdraw specified number of coin or token from a specified address	✓	✓	✓

# Verify Claims

Statement	Exist	Tested	Deployer
Renounce Ownership	✓	✓	✓
Mint	✓	✓	✗
Burn	✓	✓	✗
Block	✓	✓	✓
Pause	—	—	—

## Legend

Attribute	Symbol
Verified / Can	✓
Verified / Cannot	✗
Unverified / Not checked	🚩
Not Available	—

# Write Functions of Contract

1. approve

2. decreaseAllowance

3. increaseAllowance

4. manualSync

5. renounceOwnership

6. setAutoAddLiquidity

7. setAutoRebase

8. setBotBlacklist

9. setDistributionCriteria

10. setDistributorSettings

11. setFeeReceivers

12. setIsDividendExempt

13. setLP

14. setWhitelist

15. transfer

16. transferFrom

17. transferOwnership

18. withdrawAllToTreasury



# AUDIT PASSED

## Low Issues

State variable visibility is not set (SWC-108)	L: 345, 356, 360, 362, 363, 364, 378, 589, 615, 616, 621, 623, 630
A floating pragma is set (SWC- 103)	L: 14

# Audit Comments

- Contract has fixed fees
- Deployer can renounce ownership
- Deployer can transfer ownership
- Deployer can set auto/manual rebase
- Deployer can block/unblock users
- Deployer can change address receivers
- Deployer cannot mint after initial deployment
- Deployer cannot lock/pause contract
- Deployer cannot burn



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