



CONTRACT WOLF

Blockchain Security - Smart Contract Audits

Security Assessment

April 16, 2022



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Disclaimer

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ContractWolf provides transparent report to all its "clients" and to its "clients participants" and will not claim any guarantee of bug-free code within its **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

Croco Dundee 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 **Croco Dundee**.

Network

Cronos Chain

Contract link

<https://cronoscan.com/address/0xAf0E77c6ef24b58D17A8bc8EAc2413Dd397D241>

Website

<https://crocodundee.com>

Telegram

<https://t.me/crocodundeeee>

Twitter

<https://twitter.com/CrocoDundee7>

Description

Crocodile Dundee is a unique token, as well as a future collection of NFT with its own trading platform and the ability to place staking

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

- Context
- Ownable
- IERC20
- IPancakeFactory
- IPancakePair
- IPancakeRouter01
- IPancakeRouter02
- CROCODundee

Description

Optimization enabled: No

Decimal: 18

Symbol: CROD

Max / Total supply: 1,000,000,000

Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	2	0	5	1

Exposed Functions

Version	Public	Private	External	Internal
1.0	1	7	85	2

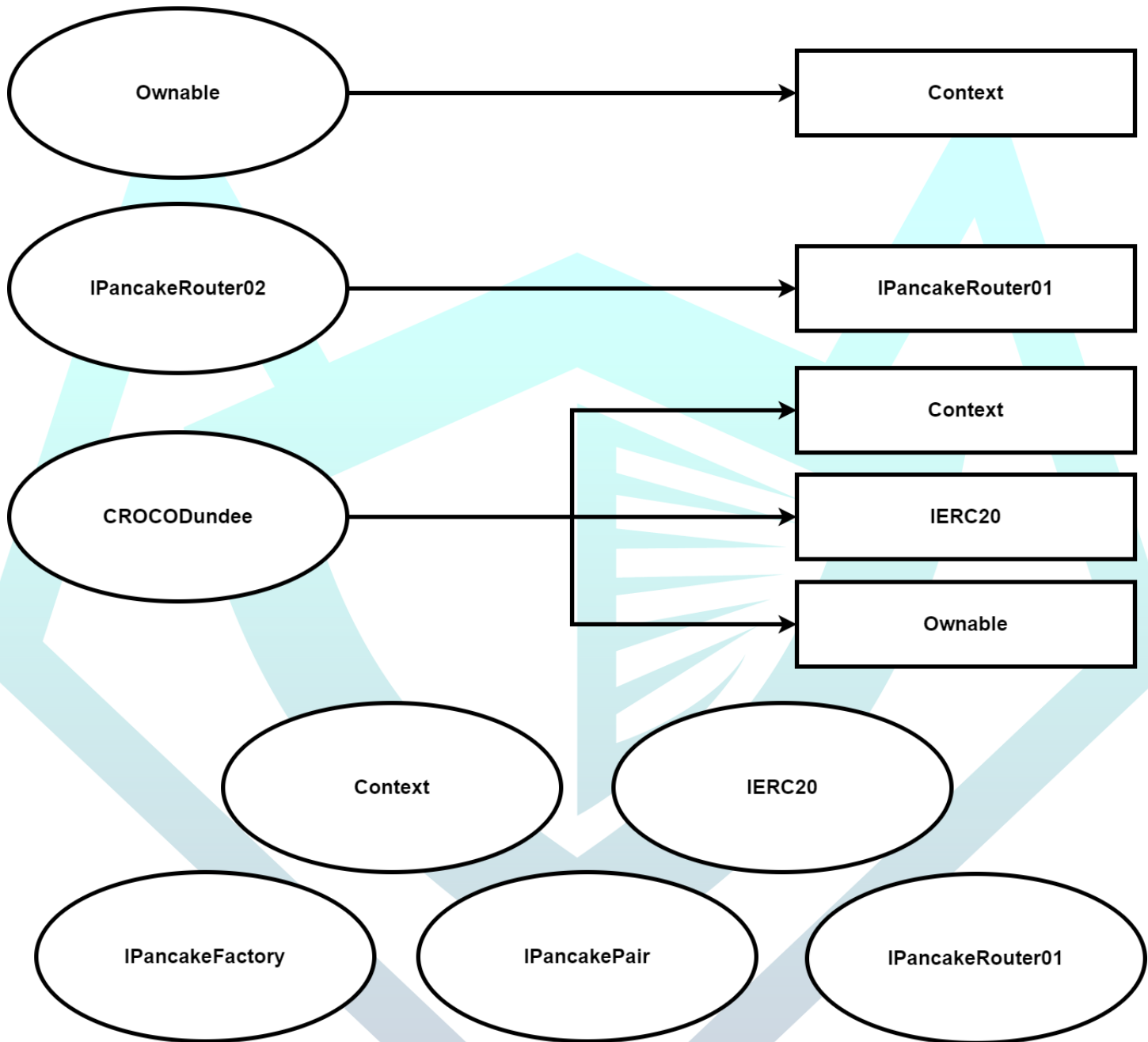
State Variables

Version	Total	Public
1.0	14	2

Capabilities

Version	Solidity Versions Observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	v0.8.9		No	No	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. burn

3. excludeFromReward

4. includeInReward

5. rewardHolders

6. setMaster

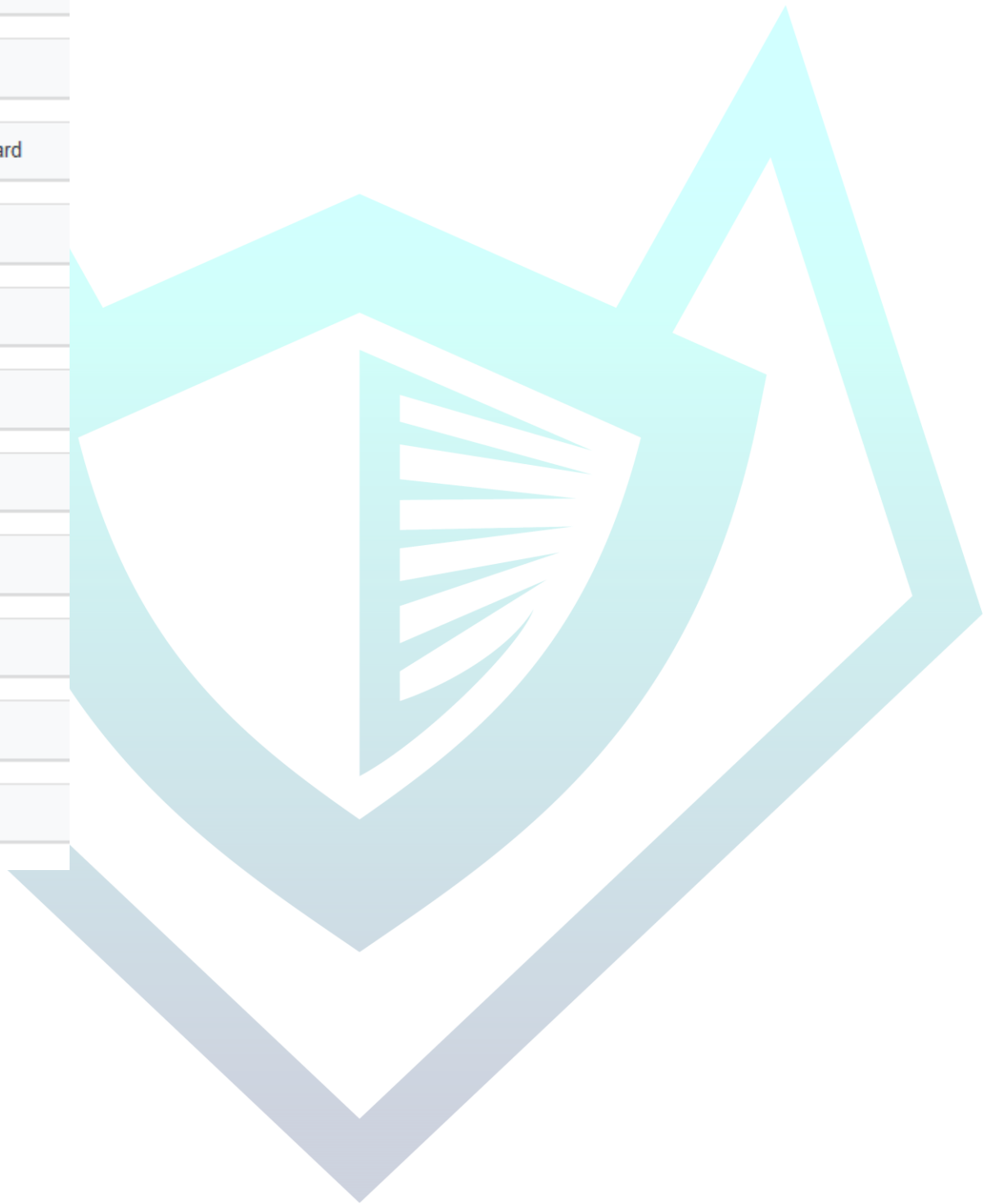
7. setNumber

8. setRemainder

9. syncPair

10. transfer

11. transferFrom



AUDIT PASSED

Critical Issues

No critical issues found

High Issues

No high issues found

Medium Issues

No medium issues found

Low Issues

No low issues found

Informational Issues

No informational issues found

Function Issues

No informational issues found

Audit Comments

- Deployer cannot renounce ownership
- Deployer cannot transfer ownership
- Deployer cannot block/unblock user
- Deployer cannot pause contract
- **Deployer can mint after initial deployment**
- Deployer can burn
- Deployer can set master
- Master can include/exclude addresses from rewards



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