freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

Winterdog
$WDOG

20/10/2022

TOKEN OVERVIEW

Fees

• Buy fees: 9%

• Sell fees: 9%

Fees privileges

• Can't change the fees

Ownership

• Owned

Minting

• No mint function

Max Tx Amount / Max Wallet Amount

• Can't change max tx amount and/or wallet limitations

Blacklist

• No blacklist function

Other privileges

• Can exclude from fees

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DISCLAIMER

INTRODUCTION

FreshCoins (Consultant) was contracted by
Winterdog (Customer) to conduct a Smart Contract Code Review and
Security Analysis.

0x6fFcEbB2F9360Bc233cc0aa35d15b4999cD6Af29

Network: **Binance Smart Chain (BSC)**

This report presents the findings of the security assessment of
Customer's smart contract and its code review conducted on 20/10/2022

AUDIT OVERVIEW

96

Security Score

98 Static Scan
Automatic scanning for common vulnerabilities

94 ERC Scan
Automatic checks for ERC's conformance

0 High

0 Medium

2 Low

0 Optimizations

0 Informational

No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

OWNER PRIVILEGES

● **Contract owner can't mint tokens after initial contract deploy**

● **Contract owner can't exclude an address from transactions**

● **Contract owner can exclude/include wallet from tax**

```
function setIsFeeExempt(address holder, bool exempt) external authorized {
    isFeeExempt[holder] = exempt;
}
```

● **Contract owner can exclude/include wallet from tx limitations**

```
function setIsTxLimitExempt(address holder, bool exempt) external authorized {
    isTxLimitExempt[holder] = exempt;
}
```

● **Contract owner can change swap settings and threshold**

```
function setSwapBackSettings(bool _enabled, uint256 _amount) external onlyOwner {
    require(_amount > 0, "swapThreshold should be greater than 0");
    swapEnabled = _enabled;
    swapThreshold = _amount;
}
```

● **Contract owner can withdraw stuck tokens from smart contract**

```
function transferForeignToken(address _token) public authorized {
    require(_token != address(this), "Cannot withdraw the native tokens");
    uint256 _contractBalance = IBEP20(_token).balanceOf(address(this));
    payable(marketingFeeReceiver).transfer(_contractBalance);
}
```

● **Contract owner can change marketingFeeReceiver address**

Default value:

marketingFeeReceiver : 0xb68D21eF27DF291b0d89056Cfdd6658B8E62e68c

```
function setFeeReceiver(address _marketingFeeReceiver) external authorized {
    marketingFeeReceiver = _marketingFeeReceiver;
}
```

● Contract owner can transfer ownership

```solidity
function transferOwnership(address payable adr) public onlyOwner {
    owner = adr;
    authorizations[adr] = true;
    emit OwnershipTransferred(adr);
}
```

Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.

CONCLUSION AND ANALYSIS

Smart Contracts within the scope were manually reviewed and analyzed with static tools.

Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.

Found no HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees: 9%

Sell fees: 9%

Max TX: 20,000,000

Max Sell: N/A

Honeypot Risk

Ownership: Owned

Blacklist: Not detected

Modify Max TX: Not detected

Modify Max Sell: Not detected

Disable Trading: Not detected

Others

Liquidity: N/A
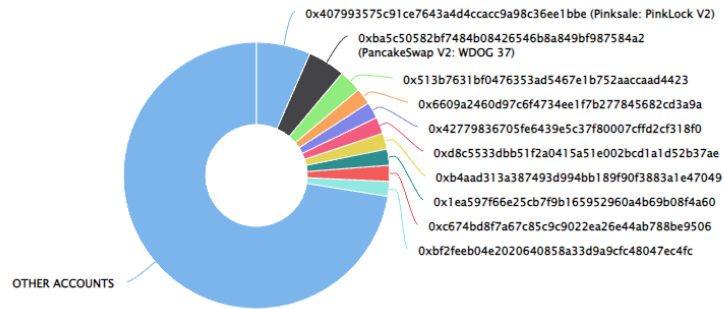
Holders: Clean

WINTERDOG TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 27.53% (275,259,098.95 Tokens) of Winterdog

Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 347

Winterdog Top 10 Token Holders
Source: BscScan.com

- 0x407993575c91ce7643a4d4ccacc9a98c36ee1bbe (Pinksale: PinkLock V2)
- 0xba5c50582bf7484b08426546b8a849bf987584a2 (PancakeSwap V2: WDOG 37)
- 0x513b7631bf0476353ad5467e1b752aaccaad4423
- 0x6609a2460d97c6f4734ee1f7b277845682cd3a9a
- 0x42779836705fe6439e5c37f80007cffd2cf318f0
- 0xd8c5533dbb51f2a0415a51e002bcd1a1d52b37ae
- 0xb4aad313a387493d994bb189f90f3883a1e47049
- 0x1ea597f66e25cb7f9b165952960a4b69b08f4a60
- 0xc674bd8f7a67c85c9c9022ea26e44ab788be9506
- 0xbf2feeb04e2020640858a33d9a9cfc48047ec4fc

OTHER ACCOUNTS

(A total of 275,259,098.95 tokens held by the top 10 accounts from the total supply of 1,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Pinksale: PinkLock V2	65,909,007	6.5909%
2	PancakeSwap V2: WDOG 37	45,083,831.290360715	4.5084%
3	0x513b7631bf0476353ad5467e1b752aaccaad4423	27,725,584.288391741	2.7726%
4	0x6609a2460d97c6f4734ee1f7b277845682cd3a9a	20,000,000	2.0000%
5	0x42779836705fe6439e5c37f80007cffd2cf318f0	20,000,000	2.0000%
6	0xd8c5533dbb51f2a0415a51e002bcd1a1d52b37ae	20,000,000	2.0000%
7	0xb4aad313a387493d994bb189f90f3883a1e47049	19,570,000	1.9570%
8	0x1ea597f66e25cb7f9b165952960a4b69b08f4a60	19,541,114.213229872	1.9541%
9	0xc674bd8f7a67c85c9c9022ea26e44ab788be9506	19,429,562.155500065	1.9430%
10	0xbf2feeb04e2020640858a33d9a9cfc48047ec4fc	18,000,000	1.8000%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform.
The platform, its programming language, and other software related
to the smart contract can have its vulnerabilities that can lead to hacks.
The audit can't guarantee the explicit security of the
audited project / smart contract.