

Smart Contract Audit

FOR

15thwhitepaperbtc

DATED: 01 November 23'



AUDIT SUMMARY

Project name - 15thwhitepaperbtc

Date: 01 November 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	1
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3-Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/token/0x5D587DbF9D1a5e A91e96e218def19B9e75810bB5



Token Information

Token Address:

0x97C8b7C47B87316EE20C98b8b7602901A2207981

Name: 15thwhitepaperbtc

Symbol: 15thwhitepaperbtc

Decimals: 18

Network: Binance smart chain

Token Type: BEP20

Owner: 0x42b1809fcb5068395901e8dee8C3AE7586607bFe

Deployer:

0x42b1809fcb5068395901e8dee8C3AE7586607bFe

Token Supply: 15

Checksum:

1666029b29a5f1ae543a23971ebc1e066fc0f1b5

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address: https://testnet.bscscan.com/token/0x5D587DbF9D1a5eA91e96e218def19B9e75810bB5



TOKEN OVERVIEW

buy fee: 10% Sell fee: 10% transfer fee: 10% Fee Privilege: Static fees Ownership: Owned Minting: None Max Tx: No Blacklist: No Other Privileges:

- Initial distribution of the tokens



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
◆ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
Gas Optimization /Suggestions	1



INHERITANCE TREE

IDEXFactory

BEP20

IDEXRouter

IDividendDistributor

IDividendDistributorFactory

15thwhitepaperbtc



POINTS TO NOTE

- Owner is not able to change current fees (12% buys and 12% sells)
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens
- Owner is not able to set maxTx and max wallet



STATIC ANALYSIS

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output

INFO:Slither:./contracts/Token.sol analyzed (6 contracts with 88 detectors), 65 result(s) found



CONTRACT ASSESMENT

```
| Contract | Type | Bases | | | | |
|<del>|------||-----||-------|</del>------|
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
IIIIII
| **IDEXFactory ** | Interface | | | |
| └ | createPair | External ! | ● | NO! |
HIIII
| **BEP20 ** | Interface | ||| | |
| - | approve | External ! | • | NO! |
| └ | transferFrom | External ! | ● NO! |
| **IDEXRouter** | Interface | |||
| - | factory | External | | | NO | |
| └ | addLiquidityETH | External ! | ■ NO! |
| - | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 1 NO! |
| L | getAmountsOut | External ! | NO! |
111111
| **IDividendDistributor** | Interface | | | |
| └ | setDistributionCriteria | External ! | ● |NO! |
| └ | claimDividend | External ! | ● NO! |
| L | getUnpaidEarnings | External ! | NO! |
1111111
| **IDividendDistributorFactory** | Interface | | | |
| └ | createDistribuitor | External ! | ● | NO! |
1111111
```



CONTRACT ASSESMENT

```
**_15thwhitepaperbtc** | Implementation |||
| - | < Constructor > | Public ! | [1] | NO! | | | |
| - | < Receive Ether> | External ! | 1 NO! |
| LotalSupply | External | | NO! |
| - owner | Public | | NO | |
| | decimals | External | | NO | |
| | | symbol | External | | | NO | |
| | getOwner | External | | NO | |
| - | allowance | External ! | |NO! |
| └ | transferFrom | External ! | ● NO! |
| └ | setPair | Public ! | ● | onlyOwner |
| └ | includeInFee | Public ! | ● | onlyOwner |
| - | setDividendExempt | Public ! | • | onlyOwner |
| L | isExcludedFromFee | Public ! | NO! |
| └ | shouldSwapBack | Internal 🔒 | | |
| | setmarketingFeeReceivers | External ! | | onlyOwner |
| - | setSwapBackSettings | External ! | • | onlyOwner |
| | | value | Public | | | NO | |
| └ | _transferFrom | Internal 🄒 | ● | |
| └ | _basicTransfer | Internal 🔒 | ● | |
| └ | _txTransfer | Internal 🔒 | ● | |
| - | getamount | Internal | - | | |
| └ | swapBack | Internal 🔒 | ● | swapping |
| └ | manualSend | External ! | ● | onlyOwner |
| └ | claimDividend | External ! | ● | NO! |
| - | getUnpaidEarnings | Public ! | NO! |
| | setDistributorSettings | External | | | | onlyOwner |
```



CONTRACT ASSESMENT

```
| - | setTXBNBgas | External ! | • | onlyOwner |
| - | setDistribuitorBuyGas | External ! | • | onlyOwner |
| - | setLiquidifyGas | External ! | • | onlyOwner |
| - | renounceOwnership | Public ! | • | onlyOwner |
| - | transferOwnership | Public ! | • | onlyOwner |
| - | transferOwnership | Internal • | • | |

### Legend

| Symbol | Meaning |
|:------|
| • | Function can modify state |
| • | Function is payable |
```



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0xe30147afe03b811f6dff95b4eaec340ea783bfe2df2 3524c4919ce24f4e9f902

2- Buying when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x5c86e5cb408855cccb76deabb19d0e232c607dd40716fc0ad5022ab64de5a32c

3- Selling when excluded (0% tax) (passed):

https://testnet.bscscan.com/tx/0x1ac518d8edab7ec0140682c020705b54d6e6823f6d4c9dce9d39c41f3d3912fd

4- Transferring when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x9d15d1e7e44d629877345511e053e2722f083e2d2aa918280200870b0e1fa6d3

5- Buying when not excluded from fees (tax 12%) (passed):

https://testnet.bscscan.com/tx/0x5cb7da3d73b7539d1cedddf62f3d39261b03d6385 44fb7b460cc0df98e5cab25

6- Selling when not excluded from fees (tax 12%) (passed):

https://testnet.bscscan.com/tx/0x8d6d814ad7551d23bba0de50185bbb74940ffa458 1000477a8c497ca4d206164

7- Transferring when not excluded from fees (12 % tax) (passed):

https://testnet.bscscan.com/tx/0x45df08cc55ba079a709ec94fa2fb44716bf0470c0a5900c174018b904580e97f

7- Internal swap (Marketing fee + reflections) (passed):

https://testnet.bscscan.com/tx/0xbb76abc5964110ba447863e4a4d8456bb52dbdd2 eaf368702985cb0b1a2e4a82



MANUAL TESTING

Logical - Out of scope dividend tracker

Severity: Unknown

function: ---

Status: Open

Overview:

Contract is using an out of scope and unverified dividend tracker. Dividend tracker is responsible for keeping track of each user rewards share and distributing BTC rewards, any mis-functioning or malicious activity related to dividend tracker which may affect buy/sell/transfer transaction is out of scope of this audit report

Suggestion

Provide the dividend tracker contract for security analysis



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