

Smart Contract Audit

FOR

BitcoinETFToken

DATED: 05 Dec 23'



AUDIT SUMMARY

Project name - BitcoinETFToken

Date: 05 Dec, 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/address/0x871ca261a6c3bccb97c647a17e1cb77b7d5f3010#code



Token Information

Token Address:

0xBEd2BB4Cd4717e4D62Ac17343041076aD3f7407e

Symbol: BTCETF

Decimals: 18

Network: Etherscan

Token Type: ERC-20

Owner: 0x8fE091c76D372204715D1819747cb4b41baDD49C

Deployer: 0x8fE091c76D372204715D1819747cb4b41baDD49C

Checksum: ff126dac9919ad76433d7e81ee6d9b99

Testnet:

https://testnet.bscscan.com/address/0x871ca261a6c3bccb97c 647a17e1cb77b7d5f3010#code



TOKEN OVERVIEW

Buy Fee: 0-5%

Sell Fee: 0-5%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: Yes

Blacklist: No



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



POINTS TO NOTE

- The owner can renounce the ownership.
- The owner can transfer ownership.
- The owner can change the marketing wallet address.
- The owner can set buy and sell fees of not more than 5%.
- The owner can Include/exclude the address from fees.



STATIC ANALYSIS

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

No major issues were found in the output



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0xda92a5d53f36e12bef9ba77 2389fe098d55bc3da34ed543523bc29aa93f30202

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xc7eb3f3e1e55080220caa58 713458f9f52e837e39eb9e381d8a1ab92ad95e42c

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x767d3e80721cea6454d01fc cc876f59729003e4020b48548e63b556a6f60eb15

4- Decrease Burn Percentage (passed):

https://testnet.bscscan.com/tx/0x85dfc2f1ed74eaf20ae90ecd 1c322ef4317855c8dfae95dc92bb237ccc505f50

5- Whitelist Address (passed):

https://testnet.bscscan.com/tx/0x78b83130b2ccf7fe7679f919 96f7ddf2f9979be5c10f2a0fe701ef409a058bdf



MANUAL TESTING

Optimization

Severity: Informational

subject: Remove unused code.

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice. though to avoid them.

```
function _msgData() internal view virtual returns (bytes
calldata) {
  return msg.data;
}
```



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