

Smart Contract Audit

FOR

Jencoin

DATED: 13 October 23'



AUDIT SUMMARY

Project name - Jencoin

Date: 13 October 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	0
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/0x426DfB13b5d5 C4a04683069f56f7dfa0690c7436#code



Token Information

Token Address:

0xb8167C0E58f4Ca0Ec7a6D967a8d138F05b3A981F

Name: Jencoin

Symbol: JEN

Decimals: 18

Network: Binance smart chain

Token Type: BEP20

Owner: ---not owned---

Deployer:

0x4365808b5e14b0Be148b93F0894C4Cdd3B52cA94

Token Supply: 21,000,000

Checksum:

7a1f4322fe93dcb0149e634a18efd8ab0ed17421

Testnet version:

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TOKEN OVERVIEW

buy fee: 0%

Sell fee: 0%

transfer fee: 0%

Fee Privilege: No fees

Ownership: Not owned

Minting: None

Max Tx: None

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.

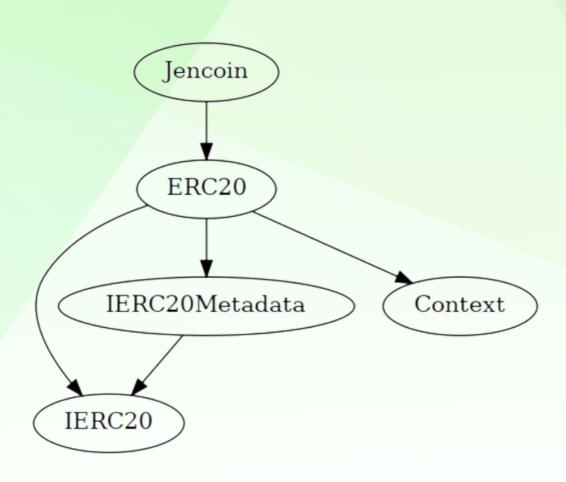
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set fees
- 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 maximum wallet and maximum buy/sell/transfer limits



STATIC ANALYSIS

INFO:Detectors:

Context._msgData() (contracts/Token.sol#119-121) is never used and should be removed ERC20._burn(address,uint256) (contracts/Token.sol#418-432) is never used and should be removed Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code INFO:Detectors:

Pragma version^0.8.17 (contracts/Token.sol#7) allows old versions

solc-0.8.17 is not recommended for deployment

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

INFO:Slither:./contracts/Token.sol analyzed (5 contracts with 88 detectors), 4 result(s) found

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

No major issues were found in the output



CONTRACT ASSESMENT

```
| Contract | Type | Bases | | | | |
|<del>|------||-----||-------|</del>------|
| L | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
IIIIII
| **IERC20** | Interface | | | |
| LanceOf | External ! | NO! |
| - | transfer | External ! | • | NO! |
| - | approve | External ! | • | NO! |
| - | transferFrom | External ! | | NO! |
111111
| **IERC20Metadata** | Interface | IERC20 |||
| | | name | External | | | NO | |
IIIIIII
| **Context** | Implementation | |||
| L |_{msgSender} | Internal | | | |
111111
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | | |
| └ | <Constructor> | Public ! | ● | NO! |
| - | symbol | Public ! | | NO ! |
| L | totalSupply | Public ! | NO! |
| | | balanceOf | Public | | | NO | |
| └ | transferFrom | Public ! | ● NO! |
| - | increaseAllowance | Public ! | • | NO! |
| - | decreaseAllowance | Public ! | • | NO! |
| └ | _transfer | Internal 🔒 | ● | |
| └ | _burn | Internal 🔒 | ● | |
```



CONTRACT ASSESMENT



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x0a99fcc84e908000b56a5cc504182c26d704d558 3e732b3b2738941d22c045e1

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

https://testnet.bscscan.com/tx/0xa96767229c434d989b58fcb5453ed3d9e53ce3e7 848919b340247a67d296d982

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

https://testnet.bscscan.com/tx/0xbc6a4855fd02282ecb5e449e6883a1e5e9377b62 70e2468d78f88600872e5ebc

4- Transferring (0% tax) (passed):

https://testnet.bscscan.com/tx/0x12b3a40fdacda0ebfa54e3e0b00b909d8d6f6d142d 0eb74dc65bdede364f3710



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