

Smart Contract Audit

FOR

NLN

DATED: 6 august 23'



AUDIT SUMMARY

Project name - NLN

Date: 6 august, 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/token/0x1547cf0FC0300B 43719dFA0576Ce835bF5009d8a



Token Information

Token Name: NliteN

Token Symbol: NLN

Decimals: 18

Token Supply: 1,000,000

Token Address:

0xe0e02c065046fa64769CC45078BAE78cBd5e3d68

Checksum:

5686cbb3d0741167b2562b5432457598c55a64d4

Owner:

0x55F72EC7b26c3E53b6169c856679AD544b63922F (at time of writing the audit)

Deployer:

0x55F72EC7b26c3E53b6169c856679AD544b63922F



TOKEN OVERVIEW

Fees:

Buy Fees:0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: owner

Ownership: owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: 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.

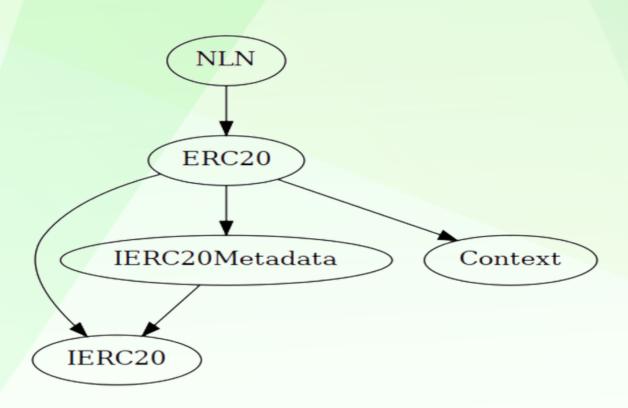
A vulnerability that has an informational character but is not affecting any of the code.

Findings

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



INHERITANCE TREE





POINTS TO NOTE

- Owner is not able to set fees on transfers
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to mint new tokens
- Owner is not able to set max buy/sell/transfer



CONTRACT ASSESMENT

```
Contract
   | **Function Name** | **Visibility** | **Mutability** | **Modifiers** | | | | |
| **IERC20** | Interface | |||
| L | totalSupply | External | | | NO | |
| L | balanceOf | External ! | NO! |
| L | transfer | External | | | NO | |
| L | allowance | External ! | NO! |
| L | transferFrom | External | | | | NO | |
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External | | NO ! |
| L | symbol | External ! | NO! |
| L | decimals | External | | NO | |
| **Context** | Implementation | |||
| L | msgSender | Internal | | | |
| L | msgData | Internal | | | |
**ERC20** | Implementation | Context, IERC20, IERC20Metadata ||
| L | <Constructor> | Public | | | NO | |
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public | | NO | |
| L | totalSupply | Public ! | NO! |
```



CONTRACT ASSESMENT

```
| L | balanceOf | Public ! | NO! |
transfer | Public | | | NO | |
L | allowance | Public ! | NO! |
| L | approve | Public | | | NO | | |
| L | transfer | Internal | | | | | |
| L | _mint | Internal 🔒 | 🛑 | |
| L|_burn|Internal 🔒 | 🛑 ||
| L | approve | Internal | | | | |
| L | beforeTokenTransfer | Internal | | |
| └ | afterTokenTransfer | Internal 🔒 | 🛑 ||
| **NLN** | Implementation | ERC20 |||
### Legend
 Symbol | Meaning |
|:----|
     | Function can modify state |
      | Function is payable |
```



STATIC ANALYSIS

INFO:Detectors:

Context._msgData() (contracts/Token.sol#53-56) is never used and should be removed

ERC20._burn(address,uint256) (contracts/Token.sol#205-220) is never used and should be removed

Reference: https://qithub.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:Detectors:

Redundant expression "this (contracts/Token.sol#54)" inContext (contracts/Token.sol#48-57)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

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- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x47afc1b69050cfdb3e923e98c4833f 97003af4abe888291e59f0d78590d9717b

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

https://testnet.bscscan.com/tx/0x5b8e0053765a4a1c5beb9071460775 fd039bf5c594b752aa040ece7a15c3bc48

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

https://testnet.bscscan.com/tx/0x9050d34291bfb945d71f7c1c3a1d297b0c0a8d4afb8a1ec8d2a672a58e58d876

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

https://testnet.bscscan.com/tx/0xdf618d8484873d7af630adec0f2dfdbbcd17a06ce1249174be5a5408c3dd31dd



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