

Smart Contract Audit

FOR

PARTY

DATED: 22 MAY 23'



AUDIT SUMMARY

Project name - PARTY

Date: 22 May, 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:** The code has undergone a line-by-line review by the **Ace** team.
- 2.ETH Test Network: All tests were conducted on the ETH 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:

Contract has been tested on binance smart chain testnet which can be found in below link: https://testnet.bscscan.com/token/0x11bDC05dd64E e6BBBfB6D8bFF8d711aF3dC2c7F2



Token Information

Name: Party Parrot

Symbol: PARTY

Decimals: 18

Network: Binance smart chain

Token Type:BEP20

Token Address:

0x1487e69F42C755cD4048BfC96dA0658DF7C2cEB2

Owner:

0x15B43A006e8d3cD5a459CE2d603f4c2B22a0b816 (at time of writing the audit)

Deployer:0x5dD1721Bb020118d5A0602e5dD83631E 3A50F698



Token Information

Fees:

Buy Fees: 0-12%

Sell Fees: 0-12%

Transfer Fees: 0%

Fees Privilige: Owner

Ownership:

0x56d7db7cE1128Cf8cB288650Cf614b8EBa03256b

Minting: None

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: - - Enabling trades

- 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.

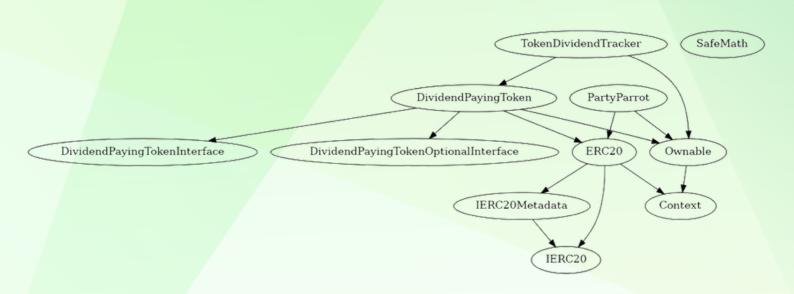
A vulnerability that has an informational character but is not affecting any of the code.

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 buy/sell fees over 12% each
- Owner is not able to set fee on transfers
- Owner is not able to blacklist an arbitrary address.
- Owner is able to disable trades but not directly
- Owner is able to burn tokens from any wallet
- Owner is not able to limit buy/sell/transfer/wallet amounts
- Owner is not able to mint new tokens



```
| Contract |
               Type
                            Bases
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
**Context** | Implementation | |||
 L | msgSender | Internal 🔒 | | |
 L | msgData | Internal | | | |
**Ownable** | Implementation | Context |||
| L | <Constructor> | Public | | | NO | |
 L owner | Public | NO | |
renounceOwnership | Public | onlyOwner |
 L | transferOwnership | Public ! | • | onlyOwner |
 L | transferOwnership | Internal 🔒 | 🛑 | |
| **IERC20** | Interface | |||
 L | totalSupply | External | | NO | |
 L | balanceOf | External | | NO | |
 L | transfer | External | | | NO | |
L | allowance | External | | NO | |
 L | approve | External | | NO | |
 L | transferFrom | External | | | NO | |
**IERC20Metadata** | Interface | IERC20 |||
| L | name | External | | NO | |
| L | symbol | External | | NO | |
L | decimals | External | | NO | |
**SafeMath** | Library | |||
L | add | Internal 🔒 | | |
 L | sub | Internal | | | |
 L | sub | Internal 🔒 | | |
 └ | mul | Internal 🔒 | | |
└ | div | Internal 🔒 | ||
 └ | mod | Internal 🔒 | ||
 └ | mod | Internal 🔒 | | |
**SafeMathInt** | Library | |||
 └ | mul | Internal 🔒 | ||
 L | add | Internal 🔒 | | |
```



```
| L | abs | Internal 🔒 | | |
L | toUint256Safe | Internal | | | |
**SafeMathUint** | Library | ||
| L | toInt256Safe | Internal 🔒 | | |
**Clones** | Library | |||
| L | clone | Internal 🔒 | 🛑 | |
□ | cloneDeterministic | Internal   □ | ● | |
□ | predictDeterministicAddress | 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 |
L | balanceOf | Public | | NO | |
L | transfer | Public | | | NO | |
L | allowance | Public | | NO |
L | approve | Public | | | NO | |
L | transferFrom | Public | | | NO |
L | decreaseAllowance | Public | | | NO | |
L | transfer | Internal | | | |
└ | beforeTokenTransfer | Internal 🔒 | ● | |
| **IUniswapV2Router01** | Interface | |||
L | factory | External | | NO | |
| WETH | External | | NO | |
L | addLiquidity | External | | | NO | |
L | addLiquidityETH | External | | 1 NO | |
L | removeLiquidity | External | | | NO | |
L | swapExactTokensForTokens | External | | NO | |
L | swapTokensForExactTokens | External | | | NO | |
```



```
| swapETHForExactTokens | External | | | | | | | | | | | |
| quote | External | | NO | |
| getAmountOut | External | | NO | |
| getAmountIn | External | NO | |
| getAmountsOut | External | NO | |
| getAmountsIn | External | NO | |
**IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External | NO | |
**IUniswapV2Factory** | Interface | |||
L | feeTo | External | | NO | |
L | feeToSetter | External | | NO | |
L | getPair | External | | NO | |
L | allPairs | External | | NO | |
L | allPairsLength | External | | NO | |
L | setFeeTo | External | | NO | |
**IUniswapV2Pair** | Interface | |||
L | name | External | | NO | |
L | symbol | External | | NO | |
L | decimals | External | | NO |
L | totalSupply | External | | NO | |
L | balanceOf | External | | NO | |
L | allowance | External | | NO | |
L | approve | External | | | NO | |
L | transfer | External | | | NO |
L | transferFrom | External | | | NO | |
L | DOMAIN SEPARATOR | External | | | NO | |
L | PERMIT TYPEHASH | External | | | NO | |
L | nonces | External | | NO | |
L | permit | External | | | NO | |
L | MINIMUM LIQUIDITY | External | | NO | |
L | factory | External | | | NO | |
```



```
L | token0 | External | NO | |
 L | token1 | External | | NO | |
 L | getReserves | External | NO | |
 | | price0CumulativeLast | External | | | NO | |
 | | price1CumulativeLast | External | | | | NO | |
L|burn|External | | NO | |
L | swap | External | | | NO | |
 | initialize | External | | | | | | | | | | | |
**DividendPayingTokenInterface** | Interface | |||
| L | dividendOf | External | | NO | | |
| L | withdrawDividend | External | | | NO | |
| **DividendPayingTokenOptionalInterface** | Interface | |||
| L | withdrawableDividendOf | External | | NO | |
 | withdrawnDividendOf | External | | NO | |
 L | accumulativeDividendOf | External | | | NO | |
**DividendPayingToken** | Implementation | ERC20, Ownable, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface |||
 L | distributeCAKEDividends | Public | | onlyOwner |
 └ | withdrawDividendOfUser | Internal 🔒 | ● ||
L | dividendOf | Public | | NO | |
| withdrawableDividendOf | Public | NO | |
 L | withdrawnDividendOf | Public | | NO | |
 L | accumulativeDividendOf | Public | | NO | |
 L | transfer | Internal 🔒 | 🛑 | |
| L | cast | Internal 🔒 | 🛑 | |
L | burn | Internal 🔒 | ● | |
L | setBalance | Internal 🔒 | ● | |
***TokenDividendTracker** | Implementation | Ownable, DividendPayingToken |||
 L | withdrawDividend | Public | | NO | |
 L | setMinimumTokenBalanceForDividends | External | | | onlyOwner |
 L | excludeFromDividends | External | | | onlyOwner |
 L | updateClaimWait | External | | • | onlyOwner |
```



```
| getLastProcessedIndex | External | NO | | |
| getNumberOfTokenHolders | External | NO | |
| isExcludedFromDividends | Public | | NO | |
| getAccount | Public | | NO | |
| getAccountAtIndex | Public | NO | |
| canAutoClaim | Private | | | |
| setBalance | External | onlyOwner |
L | process | Public | | NO | |
L | MAPGet | Public | | NO | |
| MAPGetIndexOfKey | Public | | NO | |
L | MAPGetKeyAtIndex | Public | | NO | |
L | MAPSize | Public | | NO | |
L | MAPSet | Public | | | NO | |
L | MAPRemove | Public | | NO | |
**PartyParrot** | Implementation | ERC20, Ownable |||
L | <Constructor> | Public | | ERC20 |
L | updateMinimumTokenBalanceForDividends | Public | | • | onlyOwner |
L | updateUniswapV2Router | Public | | | onlyOwner |
L | excludeFromFees | Public | | • | onlyOwner |
L | excludeMultipleAccountsFromFees | Public | | • | onlyOwner |
L | setMarketingWallet | External | | • | onlyOwner |
L | setAutomatedMarketMakerPair | Public | | onlyOwner |
L | burn | External | | | onlyOwner |
└ | setAutomatedMarketMakerPair | Private 🔐 | ● | |
L | updateClaimWait | External | | | onlyOwner |
L | getClaimWait | External | | NO | |
L | getTotalDividendsDistributed | External | | NO | |
L | isExcludedFromFees | Public | | NO | |
| withdrawableDividendOf | Public | NO | |
L | excludeFromDividends | External | | | onlyOwner |
L | isExcludedFromDividends | Public | | NO | |
L | getAccountDividendsInfo | External | | NO | |
L | getAccountDividendsInfoAtIndex | External | | NO | |
L | processDividendTracker | External | | | NO | |
L | claim | External | | NO | |
L | getLastProcessedIndex | External | | NO | |
```



```
| | getNumberOfDividendTokenHolders | External | | NO | |
 | setDeadWallet | Public | onlyOwner |
 | setSelTaxes | External | onlyOwner |
 L | transfer | Internal 🔒 | 🛑 | |
└ | swapAndSendToFee | Private 🔐 | ● | |
 L | swapAndLiquify | Private 🔐 | ● | |
└ | swapTokensForEth | Private 🔐 | ● ||
 📙 swapTokensForToken | Private 🔐 | 🛑 | |
 L | addLiquidity | Private 🔐 | 🛑 | |
 L | swapAndSendDividends | Private 🔐 | 🌘 | |
### Legend
| Symbol | Meaning |
|:-----
     | Function can modify state |
      | Function is payable |
```



STATIC ANALYSIS

```
Parameter DividendPhylingToken.dividendOf(address)_owner (contracts/Token.sol#1888) is not in mixedCase
Parameter DividendPhylingToken.withdramableDividendOf(address)_owner (contracts/Token.sol#1896) is not in mixedCase
Parameter DividendPhylingToken.accumulativeDividendOf(address)_owner (contracts/Token.sol#1806) is not in mixedCase
Variable DividendPhylingToken.REWMO_TOKEN (contracts/Token.sol#1804) is not in mixedCase
Variable DividendPhylingToken.REWMO_TOKEN (contracts/Token.sol#1804) is not in mixedCase
Constant DividendPhylingToken.REWMO_TOKEN (contracts/Token.sol#1804) is not in mixedCase
Function TokenDividendTracker.WHOSELENGTOKEN (contracts/Token.sol#1807-1809) is not in mixedCase
Variable PartyPartor.AmountLiquityTypec (contracts/Token.sol#1807-1809) is not in mixedCase
Variable PartyPartor.AmountLiquityTypec (contracts/Token.sol#1807-1809) is not in mixedCase
Variable PartyPartor.AmountLiquityTypec (contracts/Token.sol#1807) is not in mixedCase
Variable PartyPartor.AmountLiquityTypec (contrac
```

Static Analysis

an static analysis of the code were performed using slither. No issues were found



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x1b5336ae33e6330d78026f5403 5944a42091c68203ddecaee8930b327d54c588

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

https://testnet.bscscan.com/tx/0x98762dedff86acac0fed2dab020 fcb425f3ba80ca21204844f82d39d71905817

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

https://testnet.bscscan.com/tx/0x3248b538e987952a7338695a5 36a6ef338214a7e5c504973f042bfa2e50dc711

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

https://testnet.bscscan.com/tx/0x9c961b63585da76e0c05db544a 94b790b44fc99621298ffb0fd10e0311fd5aad

5- Buying when not excluded from fees (0-12% tax) (passed):

https://testnet.bscscan.com/tx/0x2e139e79d47f6c5251491bd7704 352dd1282bc3a77f5b1d8f0300312d239b3be

6- Selling from a regular wallet (0-12% tax) (passed):

https://testnet.bscscan.com/tx/0x58eeca44ad8acc4f28bbec7597f 212287ba99444edf61d93ed724fc711c9af17

7- Transferring from a regular wallet (0% tax) (passed):

https://testnet.bscscan.com/tx/0x18f603de450d35f7dda0df9048 06157b03a586e946e2d67a5c7debf00afdd1fb



FUNCTIONAL TESTING

7- Internal swap + rewards distirbution + auto liquidity + burn (passed):

https://testnet.bscscan.com/tx/0x58eeca44ad8acc4f28bbec7597f 212287ba99444edf61d93ed724fc711c9af17



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