auditace.tech

AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

TRUMP2024

DATED : 12 January 2024

AUDIT SUMMARY

Project name – TRUMP2024

Date: 12 January, 2024

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	1	2
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/0x63030ea15cbe67838600d88be715bc4b4024c258#code

Token Information

Token Address:
0x7dfd6e93Fa171176cEB240b0b1BC73A1455C4Da7

Name: TRUMP2024

Symbol: TRUMP2024

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner:
0x193131EFA33886063525646954E1B507849F7b37

Deployer:
0x193131EFA33886063525646954E1B507849F7b37

Token Supply: 1000000000

Checksum: A2032c616934aeb47e6039f76b20d212

Testnet:
https://testnet.bscscan.com/address/0x63030ea15cbe67838600d88be715bc4b4024c258#code

TOKEN OVERVIEW

Marketing Tax: 3%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: No

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-by-line 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

- Return values of low-level calls
- Private modifier
- Multiple Sends
- Using Suicide
- Gas Limitand Loops
- Address hardcoded
- Exception Disorder
- Using inline assembly
- Divide before multiply
- Missing Zero Address Validation
- Compiler version not fixed
- **Gasless Send**
- Using block.timestamp
- Re-entrancy
- Tautology or contradiction
- Timestamp Dependence
- Revert/require functions
- Use of tx.origin
- Integer overflow/underflow
- Dangerous strict equalities
- Using SHA3
- Using throw

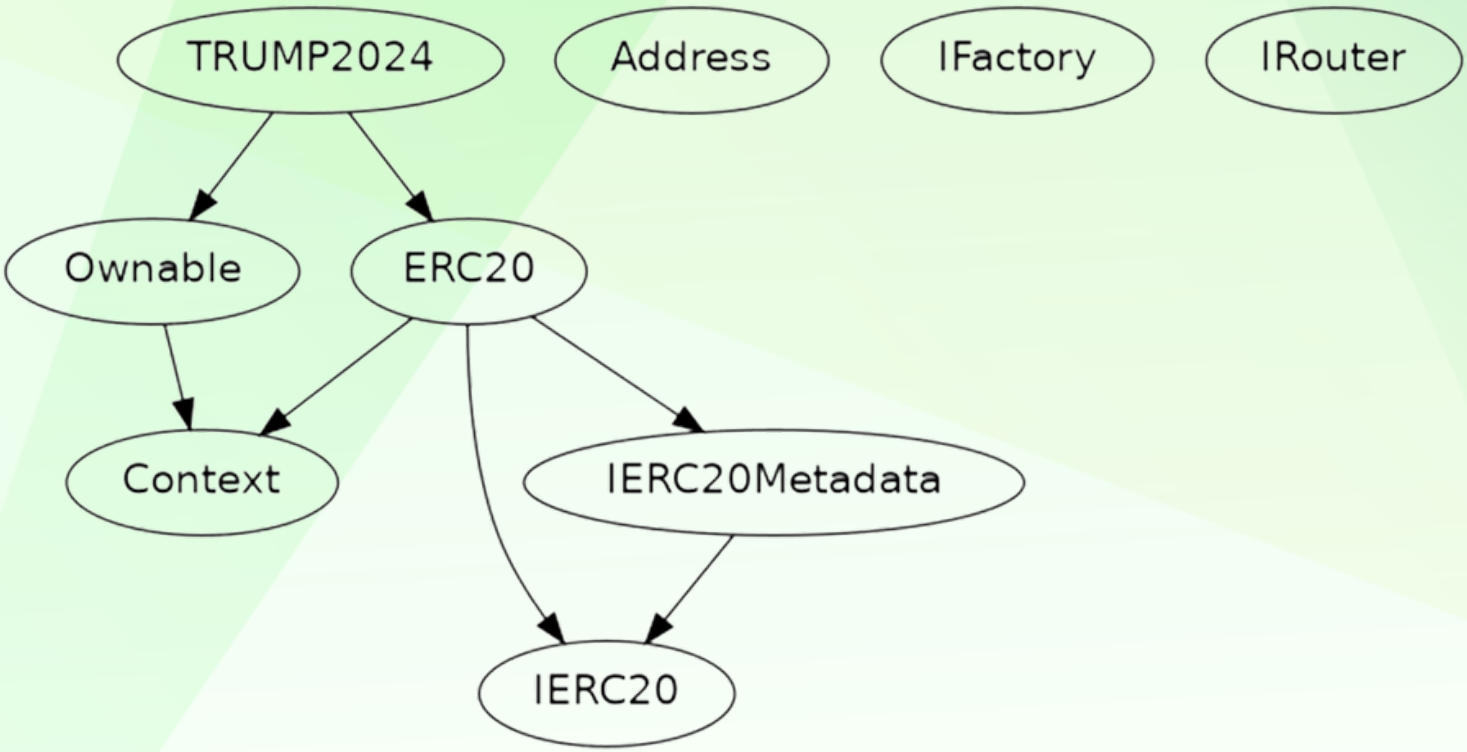
CLASSIFICATION OF RISK

Severity	Description
Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
Gas Optimization /Suggestion	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	1
Gas Optimization / Suggestions	2

INHERITANCE TREE



POINTS TO NOTE

- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can Enable trading.
- The owner can update liquidity treshhold.
- The owner can update the deadline.
- The owner can rescue BNB.
- The owner can update marketing/dev wallet addresses.
- The owner can Add/Remove Exempt fee address.

STATIC ANALYSIS

```
INFO:Detectors:
TRUMP2024.Liquify(uint256,TRUMP2024.Taxes) (TRUMP2024.sol#614-653) performs a multiplication on the result of a division:
        - unitBalance = deltaBalance / (denominator - swapTaxes.liquidity) (TRUMP2024.sol#635)
        - ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity (TRUMP2024.sol#636)
TRUMP2024.Liquify(uint256,TRUMP2024.Taxes) (TRUMP2024.sol#614-653) performs a multiplication on the result of a division:
        - unitBalance = deltaBalance / (denominator - swapTaxes.liquidity) (TRUMP2024.sol#635)
        - marketingvAmt = unitBalance * 2 * swapTaxes.marketingv (TRUMP2024.sol#643)
TRUMP2024.Liquify(uint256,TRUMP2024.Taxes) (TRUMP2024.sol#614-653) performs a multiplication on the result of a division:
        - unitBalance = deltaBalance / (denominator - swapTaxes.liquidity) (TRUMP2024.sol#635)
        - devAmt = unitBalance * 2 * swapTaxes.dev (TRUMP2024.sol#648)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-multiply
INFO:Detectors:
TRUMP2024._transfer(address,address,uint256).feeswap (TRUMP2024.sol#569) is a local variable never initialized
TRUMP2024._transfer(address,address,uint256).currentTaxes (TRUMP2024.sol#572) is a local variable never initialized
TRUMP2024._transfer(address,address,uint256).feesum (TRUMP2024.sol#570) is a local variable never initialized
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables
INFO:Detectors:
TRUMP2024.addLiquidity(uint256,uint256) (TRUMP2024.sol#673-686) ignores return value by router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0
,0,deadWallet,block.timestamp) (TRUMP2024.sol#678-685)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return
INFO:Detectors:
TRUMP2024._transfer(address,address,uint256).fee (TRUMP2024.sol#571) is written in both
        fee = 0 (TRUMP2024.sol#580)
        fee = (amount * feesum) / 100 (TRUMP2024.sol#596)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#write-after-write
INFO:Detectors:
TRUMP2024.updateLiquidityTreshhold(uint256) (TRUMP2024.sol#692-696) should emit an event for:
        - tokenLiquidityThreshold = new_amount * 10 ** decimals() (TRUMP2024.sol#695)
TRUMP2024.updatedeadline(uint256) (TRUMP2024.sol#705-709) should emit an event for:
        - deadline = _deadline (TRUMP2024.sol#708)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic
INFO:Detectors:
Modifier TRUMP2024.lockTheSwap() (TRUMP2024.sol#472-478) does not always execute _; or revertReference: https://github.com/crytic/slither/wiki/Detector-Docu
mentation#incorrect-modifier
```

```
INFO:Detectors:
Context._msgData() (TRUMP2024.sol#15-18) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
Pragma version^0.8.19 (TRUMP2024.sol#8) necessitates a version too recent to be trusted. Consider deploying with 0.8.18.
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (TRUMP2024.sol#351-362):
        - (success) = recipient.call{value: amount}() (TRUMP2024.sol#357)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
INFO:Detectors:
Function IRouter.WETH() (TRUMP2024.sol#414) is not in mixedCase
Function TRUMP2024.Liquify(uint256,TRUMP2024.Taxes) (TRUMP2024.sol#614-653) is not in mixedCase
Parameter TRUMP2024.updateLiquidityTreshhold(uint256).new_amount (TRUMP2024.sol#692) is not in mixedCase
Function TRUMP2024.EnableTrading() (TRUMP2024.sol#698-703) is not in mixedCase
Parameter TRUMP2024.updatedeadline(uint256)._deadline (TRUMP2024.sol#705) is not in mixedCase
Function TRUMP2024.AddExemptFee(address) (TRUMP2024.sol#721-723) is not in mixedCase
Parameter TRUMP2024.AddExemptFee(address)._address (TRUMP2024.sol#721) is not in mixedCase
Function TRUMP2024.RemoveExemptFee(address) (TRUMP2024.sol#725-727) is not in mixedCase
Parameter TRUMP2024.RemoveExemptFee(address)._address (TRUMP2024.sol#725) is not in mixedCase
Function TRUMP2024.AddbulkExemptFee(address[]) (TRUMP2024.sol#729-733) is not in mixedCase
Function TRUMP2024.RemovebulkExemptFee(address[]) (TRUMP2024.sol#735-739) is not in mixedCase
Variable TRUMP2024.genesis_block (TRUMP2024.sol#453) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
Redundant expression "this (TRUMP2024.sol#16)" inContext (TRUMP2024.sol#10-19)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
INFO:Detectors:
TRUMP2024.launchtax (TRUMP2024.sol#455) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Detectors:
TRUMP2024.pair (TRUMP2024.sol#445) should be immutable
TRUMP2024.router (TRUMP2024.sol#444) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
INFO:Slither:TRUMP2024.sol analyzed (9 contracts with 93 detectors), 38 result(s) found
```

FUNCTIONAL TESTING

1- **Approve** (passed):
https://testnet.bscscan.com/tx/0x7988bc2f56c73b7c0e6b2e8ddb7d1a1ef309190123030cffe426a020a40b339d

2- **Increase Allowance** (passed):
https://testnet.bscscan.com/tx/0x91adad7576232a5fe29b08e573d7e01cef1e8e89e5047283f9ca3b22a4d08134

3- **Decrease Allowance** (passed):
https://testnet.bscscan.com/tx/0x57fb9aa4bb263fd44e621bd6083f205e1ee32cd1c4d7aacad33e15ec754ebb65

4- **Add Exempt Fee** (passed):
https://testnet.bscscan.com/tx/0x9795f8449071b9720ecd3378c1be3aa349f298e6cc02d39702f220e4ab14f1f8

5- **Remove Exempt Fee** (passed):
https://testnet.bscscan.com/tx/0x9a02b38ed0002b6fd553c5ad25ff780889403b6659eda0a73bc443bf12e180f5

6- **Enable Trading** (passed):
https://testnet.bscscan.com/tx/0xc1dcfc4b5b3be3fa8e087af4fb88f0e15c1b71fdf6f9ab95cc5912e6c934a28c

MANUAL TESTING

Centralization - Missing Events

Severity: Low
Subject: Missing Events
Status: Open

Overview:
They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function updateLiquidityTreshhold(uint256 new_amount) external onlyOwner {
require(new_amount >= 1e5,"Swap threshold amount should be lower or equal to 0.01% of tokens");
require(new_amount <= 1e7,"Swap threshold amount should be lower or equal to 1% of tokens");
   tokenLiquidityThreshold = new_amount * 10**decimals();
 }
```

MANUAL TESTING

Optimization

Severity: Informational

Subject: Floating Pragma Solidity version

Status: Open

Overview:
It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity ^0.8.19;

Suggestion:
Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.

MANUAL TESTING

Optimization

Severity: Optimization

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) {
    this; // silence state mutability warning without generating bytecode - see https://github.com/ethereum/solidity/issues/2691
return msg.data;
  }
```

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