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AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

10C Network

DATED : 2 July 23'

AUDIT SUMMARY

Project name – 10C Network

Date: 2 July, 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:
Contract has been tested on binance smart chain testnet which can be found in below link:
https://testnet.bscscan.com/token/0xc0EEAd3F30EE22dF543e82C761C9F9305f1EF147

Token Information

Token Name : 10C Network

Token Symbol: 10C

Decimals: 18

Token Supply: 10,000,000

Token Address:
0x455089E059Aa91ba7d949F607501035DCBC10dCe

Checksum:
10742c33c1f0560c4b35e3692ae220defc02c744

Owner:
0x79c1Da38a8d5cBf304CB6D992be8F4F8B4F49F5c
(at time of writing the audit)

Deployer:
0x79c1Da38a8d5cBf304CB6D992be8F4F8B4F49F5c

TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: No fees

Ownership: Renounced

Minting: none

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-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

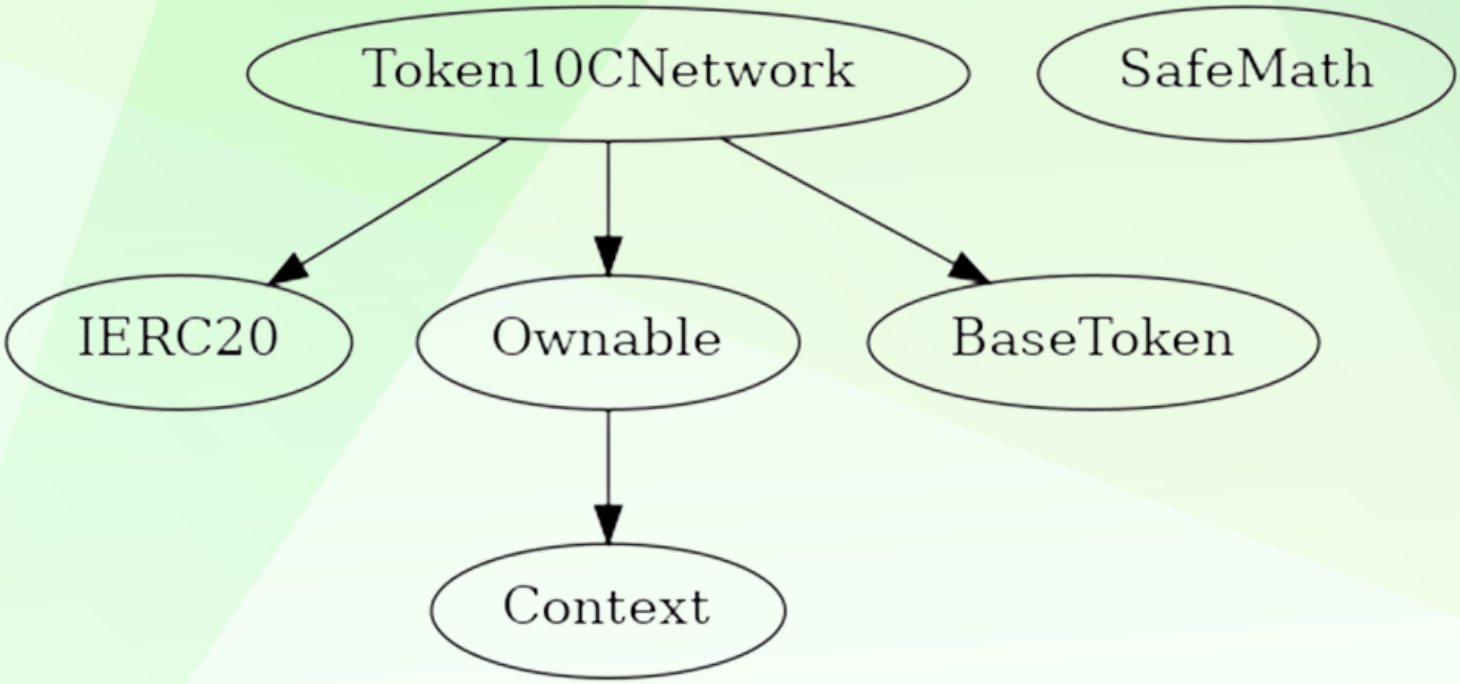
CLASSIFICATION OF RISK

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	0
Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to set buy/sell/transfer tax
- Owner is not able to set max buy/sell/transfer/hold amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens

CONTRACT ASSESMENT

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
└	totalSupply	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO ❗
└	owner	Public ❗		NO ❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	_setOwner	Private 🔐	🛑	
SafeMath	Library			
└	tryAdd	Internal 🔒		
└	trySub	Internal 🔒		
└	tryMul	Internal 🔒		
└	tryDiv	Internal 🔒		
└	tryMod	Internal 🔒		
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	sub	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
BaseToken	Implementation			
Token10CNetwork	Implementation	IERC20, Ownable, BaseToken		
└	<Constructor>	Public ❗	🛑	NO ❗
└	name	Public ❗		NO ❗
└	symbol	Public ❗		NO ❗

CONTRACT ASSESMENT

└	decimals	Public ❗		NO ❗
└	totalSupply	Public ❗		NO ❗
└	balanceOf	Public ❗		NO ❗
└	transfer	Public ❗	🛑	NO ❗
└	allowance	Public ❗		NO ❗
└	approve	Public ❗	🛑	NO ❗
└	transferFrom	Public ❗	🛑	NO ❗
└	increaseAllowance	Public ❗	🛑	NO ❗
└	decreaseAllowance	Public ❗	🛑	NO ❗
└	_transfer	Internal 🔒	🛑	
└	_mint	Internal 🔒	🛑	
└	_burn	Internal 🔒	🛑	
└	_approve	Internal 🔒	🛑	
└	_setupDecimals	Internal 🔒	🛑	
└	_beforeTokenTransfer	Internal 🔒	🛑	

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS

```
Token10CNetwork.allowance(address,address).owner (contracts/Token.sol#506) shadows:
        - Ownable.owner() (contracts/Token.sol#142-144) (function)
Token10CNetwork._approve(address,address,uint256).owner (contracts/Token.sol#664) shadows:
        - Ownable.owner() (contracts/Token.sol#142-144) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Context._msgData() (contracts/Token.sol#104-106) is never used and should be removed
SafeMath.div(uint256,uint256) (contracts/Token.sol#314-316) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#366-371) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#330-332) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#388-393) is never used and should be removed
SafeMath.mul(uint256,uint256) (contracts/Token.sol#300-302) is never used and should be removed
SafeMath.sub(uint256,uint256) (contracts/Token.sol#286-288) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#201-207) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#243-248) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#255-260) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#226-236) is never used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#214-219) is never used and should be removed
Token10CNetwork._burn(address,uint256) (contracts/Token.sol#641-649) is never used and should be removed
Token10CNetwork._setupDecimals(uint8) (contracts/Token.sol#679-681) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#417) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.20 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Variable Token10CNetwork._totalSupply (contracts/Token.sol#435) is too similar to Token10CNetwork.constructor(string,string,uint8,uint256).totalSupply_ (contracts/Token.sol#437)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

Token10CNetwork._name (contracts/Token.sol#432) should be immutable
Token10CNetwork._symbol (contracts/Token.sol#433) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

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/0x26ed88f21463ba7c40c61b5bcedf9f0fbe523a07eb6b073a7128358f4dfc7dc4

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

https://testnet.bscscan.com/tx/0x154a0964bad851630c6e28779a71c74a0e7eefd2fccbd364daa13534ac19d4af

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

https://testnet.bscscan.com/tx/0x85bce719cd040d6d7ca55ef2efddb4c5c38ec4f1e5df3b75c9ce8e87fd8c62e5

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

https://testnet.bscscan.com/tx/0x0eed52ac01997d962f66d98e8cab891530c19a239adce84402b97e16d2f7e73d

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