ASSURE DEFI®
THE VERIFICATION GOLD STANDARD

Security Assessment:
Tendr TOKEN

September 21, 2024

- Audit Status: **Pass**
- Audit Edition: **Advance**

Tendr

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Risk Analysis

Classifications of Manual Risk Results

Classification	Description
🔴 Critical	Danger or Potential Problems.
🟠 High	Be Careful or Fail test.
🟡 Medium	Pass, Not-Detected or Safe Item.
🟢 Low	Function Detected

Manual Code Review Risk Results

Contract Privilege	Description
🟢 Buy Tax	2%
🟢 Sale Tax	4%
🟢 Cannot Buy	Pass
🟢 Cannot Sale	Pass
🟢 Max Tax	20%
ℹ️ Modify Tax	Yes
🟢 Fee Check	Pass
🟢 Is Honeypot?	Not Detected
🟢 Trading Cooldown	Not Detected
🟢 Can Pause Trade?	Pass
🟢 Pause Transfer?	Not-Detected
🟢 Max Tx?	Pass
🟡 Is Anti Whale?	Detected
🟢 Is Anti Bot?	Not-Detected

Contract Privilege	Description
🟢 Is Blacklist?	Not-Detected
🟢 Blacklist Check	Pass
🟢 is Whitelist?	Detected
🟢 Can Mint?	Pass
🟢 Is Proxy?	Not Detected
🟢 Can Take Ownership?	Not Detected
🟢 Hidden Owner?	Not-Detected
ℹ️ Owner	0xc8123E3330e81E41503890f9ba4A3F4BD2eaDaa7
🟢 Self Destruct?	Not Detected
🟢 External Call?	Detected
🟢 Other?	Not Detected
🟢 Holders	2
🟡 Auditor Confidence	Medium
🟡 KYC Present	No
🟡 KYC URL	

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.

Project Overview
Token Summary

Parameter	Result
Address	0xa9F3B5D44718Bf07B4afF7a9a3cc8E4Bf076A4Bc
Name	Tendr
Token Tracker	Tendr (TLC)
Decimals	18
Supply	69,000,000
Platform	BASESCAN
compiler	v0.8.26+commit.8a97fa7a
Contract Name	Tendr
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://basescan.org/address/0xa9f3b5d44718bf07b4aff7a9a3cc8e4bf076a4bc#code
Payment Tx	Corporate

Main Contract Assessed
Contract Name

Name	Contract	Live
Tendr	0xa9F3B5D44718Bf07B4afF7a9a3cc8E4Bf076A4Bc	Yes

TestNet Contract Assessed
Contract Name

Name	Contract	Live
Tendr	0x71A5B1C9eb5f2bEa1f0b22A850A807e80856fBeb	Yes

Solidity Code Provided

SolID	File Sha-1	FileName
Tendr	901e39a1685a96d496fb64602d1143d8acc6a20f	Tendr.sol
Tendr		
Tendr		
Tendr		
Tendr		
Tendr		

Call Graph

The contract for Tendr has the following call graph structure.
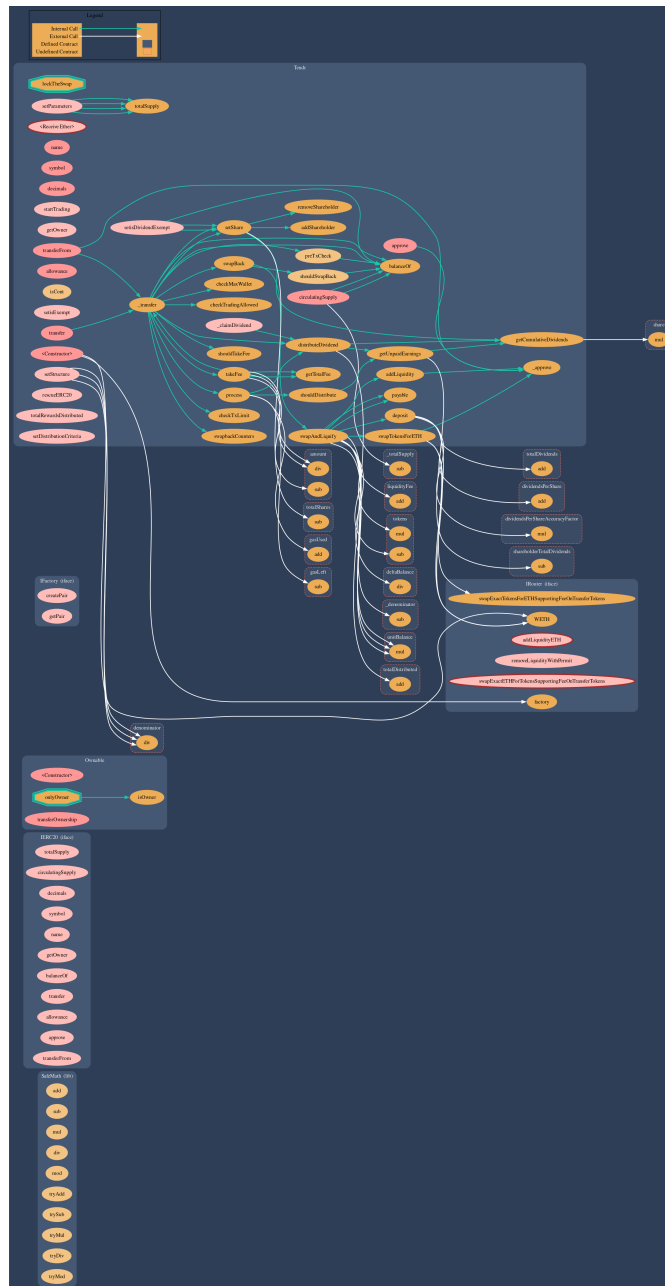
Inheritance

The contract for Tendr has the following inheritance structure.

The Project has a Total Supply of 69,000,000
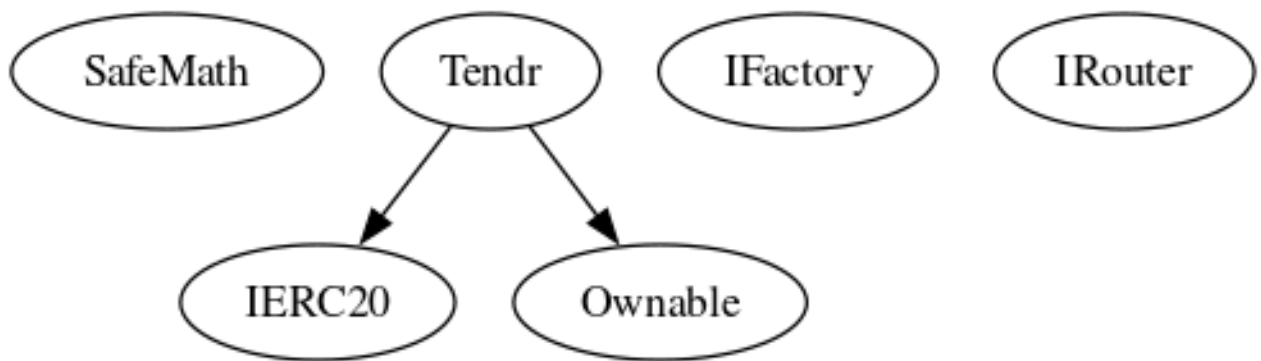
TLC-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	🟢 Low	Tendr.sol: L: 0 C: 0	🕒 Detected

Description

The given input is missing the check for the non-zero address.

The given input is missing the check for the onlyOwners need to be revisited for require..

Remediation

We advise the client to add the check for the passed-in values to prevent unexpected errors as below:
    ...
     require(receiver != address(0), "Receiver is the zero address");
    ...
    ...
     require(value X limitation, "Your not able to do this function");
    ...

We also recommend customer to review the following function that is missing a required validation. onlyOwners need to be revisited for require..

TLC-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	🟢 Low	Tendr.sol: L: 0 C: 0	🗎 Detected

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

Remediation

Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.

TLC-14 | Unnecessary Use Of SafeMath

Category	Severity	Location	Status
Logical Issue	🟡 Medium	Tendr.sol: L: 0 C: 0	🗎 Detected

Description

The SafeMath library is used unnecessarily. With Solidity compiler versions 0.8.0 or newer, arithmetic operations
    will automatically revert in case of integer overflow or underflow.
    library SafeMath {
    An implementation of SafeMath library is found.
    using SafeMath for uint256;
    SafeMath library is used for uint256 type in contract.

Remediation

We advise removing the usage of SafeMath library and using the built-in arithmetic operations provided by the
    Solidity programming language

Project Action

TLC-18 | Stop Transactions by using Enable Trade.

Category	Severity	Location	Status
Logical Issue	🔴 Critical	Tendr.sol: L: 393 C: 14	🗎 Detected

Description

Enable Trade is presend on the following contract and when combined with Exclude from fees it can be considered a whitelist process, this will allow anyone to trade before others and can represent and issue for the holders.

Remediation

We recommend the project owner to carefully review this function and avoid problems when performing both actions.

Project Action

TLC-19 | Centralization Privileges of.

Category	Severity	Location	Status
	🟡 Medium	Tendr.sol: L: 393 C: 14,L: 385 C: 14,L: 341 C: 14,L: 306 C: 14,L: 299 C: 14,L: 269 C: 14	📄 Detected

Description

Centralized Privileges are found on the following functions.

Remediation

undefined

Project Action

Technical Findings Summary
Classification of Risk

Severity	Description
🔴 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
🟠 High	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
🟡 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
🟢 Low	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
🔵 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

Findings

Severity	Found	Pending	Resolved
🔴 Critical	1	1	0
🟠 High	0	0	0
🟡 Medium	2	2	0
🟢 Low	2	2	0
🔵 Informational	0	0	0
Total	5	5	0

Social Media Checks

Social Media	URL	Result
Twitter	x.com/mytendr	Pass
Other	tiktok.com/@mytendr	Pass
Website	mytendr.com	Pass
Telegram	t.me/mytendr	Pass

We recommend to have 3 or more social media sources including a completed working websites.

Social Media Information Notes:

Auditor Notes: undefined

Project Owner Notes:

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Assessment Results

Score Results

Review	Score
Overall Score	92/100
Auditor Score	80/100
Review by Section	Score
Manual Scan Score	40
Auto Scan Score	37
Advance Check Score	15

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project most pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below.

Audit Passed

Assessment Results

Important Notes:

• Contract Overview: ERC20 token with dividend distribution. Uses SafeMath for arithmetic operations. Fee structure includes liquidity, marketing, rewards, development, and burn fees.ı

• Centralization and Control: Owner has significant control over fees, trading status, and exemptions. Owner can rescue ERC20 tokens, which poses a risk if misused.ı

• Fee Structure: Total, sell, and transfer fees can be set up to 20%. Ensure transparency and communication with users regarding fee changes.ı

• Dividend Distribution: Uses a shareholder system for distributing dividends. Ensure gas limits are managed to prevent failed transactions during distribution.ı

• Liquidity Management: Liquidity is managed through swap and liquify functions. Ensure liquidity receiver addresses are secure and trusted.ı

• Security Considerations: Ensure no reentrancy vulnerabilities with external calls. Validate that unchecked arithmetic does not lead to overflow/underflow.ı

• Testing and Validation: Thoroughly test all functions, especially those involving external calls and dividend distribution. Simulate various scenarios to ensure contract behaves as expected.ı

• Documentation and Transparency: Provide clear documentation on fee structure, dividend distribution, and owner privileges. Maintain transparency with users regarding any changes to the contract.

Auditor Score =80
Audit Passed

Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that actagainst the nature of decentralization, such as explicit ownership or specialized access roles incombination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimalEVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on howblock.timestamp works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functionsbeing invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that mayresult in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to makethe codebase more legible and, as a result, easily maintainable.

Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code,such as a constructor assignment imposing different require statements on the input variables than a setterfunction.

Coding Best Practices

ERC 20 Conding Standards are a set of rules that each developer should follow to ensure the code meet a set of creterias and is readable by all the developers.

Disclaimer

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocation for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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