



# SECURITY ASSESSMENT ME TOKEN

February 24, 2025

Audit Status: Fail














# RISK ANALYSIS | ME.

## ■ Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Medium	Improve is needed.
 Low	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

## ■ Manual Code Review Risk Results

Contract Security	Description
 Buy Tax	2%
 Sale Tax	2%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	2%
 Modify Tax	Yes
 Fee Check	Pass
 Is Honeypot?	Not Detected
 Trading Cooldown	Not Detected
 Enable Trade?	False
 Pause Transfer?	Not-Detected

Contract Security	Description
● Max Tx?	Pass
● Is Anti Whale?	Not-Detected
● Is Anti Bot?	Not-Detected
● Is Blacklist?	Detected
● Blacklist Check	Fail
● is Whitelist?	Detected
● Can Mint?	Pass
● Is Proxy?	Not Detected
● Can Take Ownership?	Not Detected
● Hidden Owner?	Not-Detected
● Owner	0xD6ae244428bEA5502B0Cc95F34E185c5d6894cb9
● Self Destruct?	Not Detected
● External Call?	Detected
● Other?	Not Detected
● Holders	1
● Audit Confidence	Low
● Authority Check	Pass
● Freeze Check	Pass

The summary section reveals the strengths and weaknesses identified during the assessment, including any vulnerabilities or potential risks that may exist. It serves as a valuable snapshot of the overall security status of the audited project. However, it is highly recommended to read the entire security assessment report for a comprehensive understanding of the findings. The full report provides detailed insights into the assessment process, methodology, and specific recommendations for addressing the identified issues.



ME

## Executive Summary

TYPES

DeFi

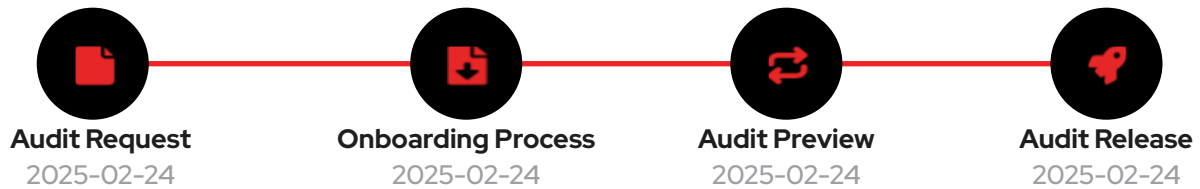
ECOSYSTEM

Prego

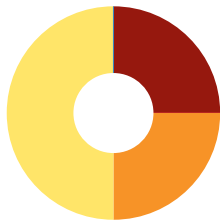
LANGUAGE

Solidity

## Timeline



## Vulnerability Summary



4

Total Findings

0

Resolved

4

Pending

4

Unresolved

**1 Critical**

0 Resolved, 1 Pending

Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.

**0 High**

High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.

**1 Medium**

0 Resolved, 1 Pending

Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.

**2 Low**

0 Resolved, 2 Pending

Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.

**0 Informational**

Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

# PROJECT OVERVIEW | ME.

## Token Summary

Parameter	Result
Address	0x28aFF2c629E88814f20E3451068D99d3435D7888
Name	ME
Token Tracker	ME (ME)
Decimals	18
Supply	20,000,000
Platform	Prego
Compiler	v0.8.19+commit.7dd6d404
Contract Name	ME
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://scan.pego.network/address/0x28aFF2c629E88814f20E3451068D99d3435D7888?tab=contract">https://scan.pego.network/ address/0x28aFF2c629E88814f20E3451068D99d3435D7888?tab=contract</a>

## ■ Main Contract Assessed

Name	Contract	Live
ME	0x28aFF2c629E88814f20E3451068D99d3435D7888	Yes

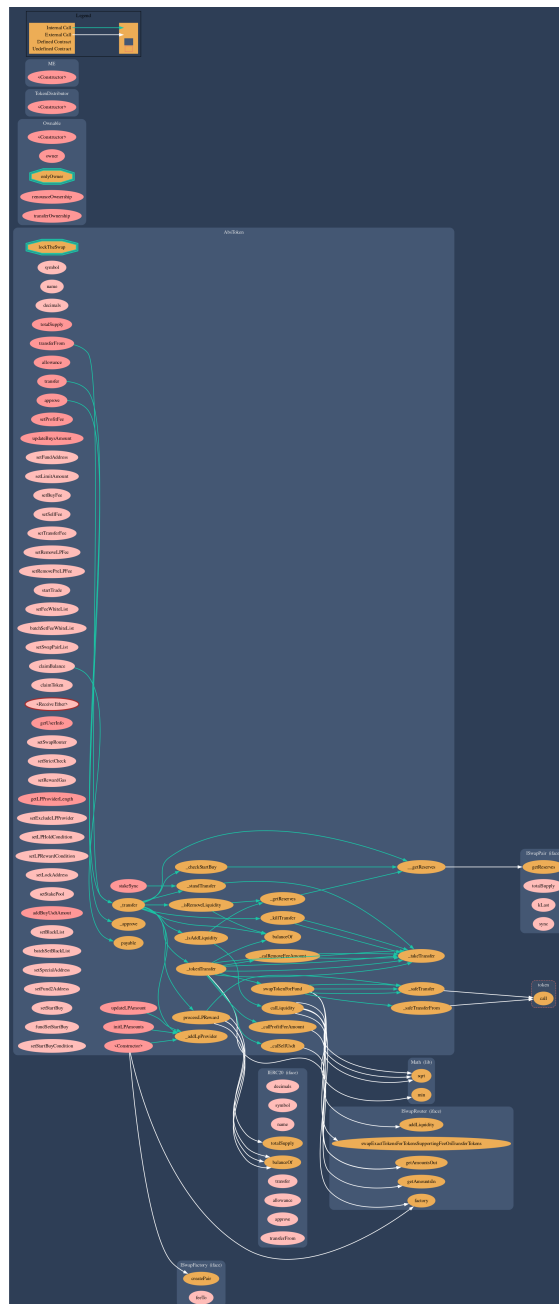
## ■ TestNet Contract Was Not Assessed

## ■ Solidity Code Provided

SolidID	File Sha-1	FileName
ME	0c472e508ad485f6025cebd900abb6ffd1796aed	ME.sol

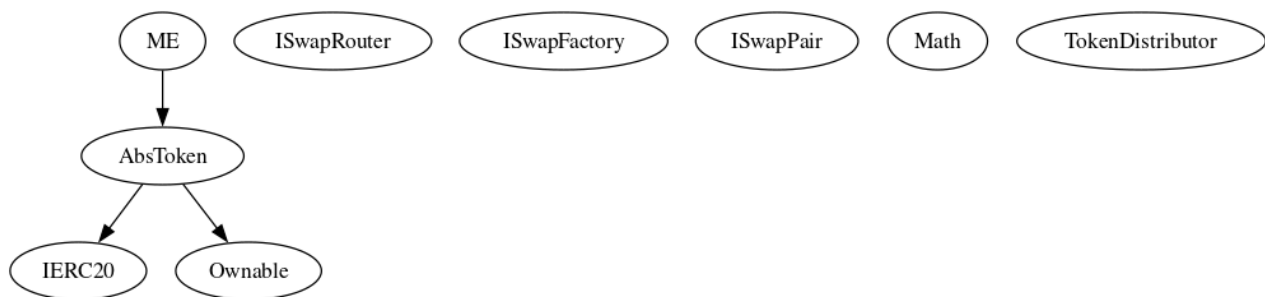
## Call Graph

The Smart Contract Graph is a visual representation of the interconnectedness and relationships between smart contracts within a blockchain network. It provides a comprehensive view of the interactions and dependencies between different smart contracts, allowing developers and users to analyze and understand the flow of data and transactions within the network. The Smart Contract Graph enables better transparency, security, and efficiency in decentralized applications by facilitating the identification of potential vulnerabilities, optimizing contract execution, and enhancing overall network performance.



## Inheritance Check

Smart contract inheritance is a concept in blockchain programming where one smart contract can inherit properties and functionalities from another existing smart contract. This allows for code reuse and modularity, making the development process more efficient and scalable. Inheritance enables the child contract to access and utilize the variables, functions, and modifiers defined in the parent contract, thereby inheriting its behavior and characteristics. This feature is particularly useful in complex decentralized applications (dApps) where multiple contracts need to interact and share common functionalities. By leveraging smart contract inheritance, developers can create more organized and maintainable code structures, promoting code reusability and reducing redundancy.





## TECHNICAL FINDINGS | ME.



Smart contract security audits classify risks into several categories: Critical, High, Medium, Low, and Informational. These classifications help assess the severity and potential impact of vulnerabilities found in smart contracts.

### Classification of Risk

Severity	Description
 Critical	Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.
 High	High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.
 Medium	Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.
 Low	Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.
 Informational	Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

By categorizing risks into these classifications, smart contract security audits can prioritize the resolution of critical and high-risk vulnerabilities to ensure the contract's overall security and protect user funds and data.

## ME-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	 Low	ME.sol: L: 269 C: 12	 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..

### Recommendation

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..

### Mitigation

#### References:

Zero Address check. The danger!!!

## ME-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Low	ME.sol: L: 506 C: 12, L: 593 C: 12	 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.

### Recommendation



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

### Mitigation

### References:

Understanding Events in Smart Contracts

## ME-18 | Stop Transactions by using Enable Trade.

Category	Severity	Location	Status
Logical Issue	 Critical	ME.sol: L: 1004 C: 14	 Detected

### Description

Enable Trade is present 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.

### Recommendation


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

### Mitigation

### References:

Writing Clean Code for Solidity: Best Practices for Solidity Development

## ME-19 | Centralization Privileges of ME.

Category	Severity	Location	Status
Coding Style	<span style="color: orange;">●</span> Medium	ME.sol: L: 0 C: 14	 Detected

### Description

In a smart contract, the concept of "onlyOwner" functions refers to certain functions that can only be executed by the owner or creator of the contract. These functions are typically designed to perform critical actions or modify sensitive data within the contract. By restricting access to these functions, the contract owner maintains control and ensures the integrity and security of the contract.

Function Name	Parameters	Visibility
renounceOwnership		Public
transferOwnership		Public
setProfitFee		Public
updateBuysAmount		Public
setFundAddress		External
setLimitAmount		External
setBuyFee		External
setSellFee		External
setTransferFee		External
setRemoveLPFee		External
setRemovePreLPFee		External

Function Name	Parameters	Visibility
startTrade		External
setFeeWhiteList		External
batchSetFeeWhiteList		External
setSwapPairList		External
updateLPAmount		Public
initLPAmounts		Public
setSwapRouter		External
setStrictCheck		External
setRewardGas		External
setExcludeLPPProvider		External
setLPHoldCondition		External
setLPRewardCondition		External
setLockAddress		External
setStakePool		External
setBlackList		External
batchSetBlackList		External
setSpecialAddress		External
setFund2Address		External
setStartBuy		External
setStartBuyCondition		External

## Recommendation

Inheriting from Ownable and calling its constructor on yours ensures that the address deploying your contract is registered as the owner. The `onlyOwner` modifier makes a function revert if not called by the address registered as the owner. It is important that deployer or owner secure the credentials that has owner privilege to ensure the security of the project.

## Mitigation






### References:

[Guide to Ownership and Access Control in Solidity](#)

[Writing Clean Code for Solidity: Best Practices for Solidity Development](#)

## FINDINGS

In this document, we present the findings and results of the smart contract security audit. The identified vulnerabilities, weaknesses, and potential risks are outlined, along with recommendations for mitigating these issues. It is crucial for the team to address these findings promptly to enhance the security and trustworthiness of the smart contract code.

Severity	Found	Pending	Resolved
 Critical	1	1	0
 High	0	0	0
 Medium	1	1	0
 Low	2	2	0
 Informational	0	0	0
Total	4	4	0

In a smart contract, a technical finding summary refers to a compilation of identified issues or vulnerabilities discovered during a security audit. These findings can range from coding errors and logical flaws to potential security risks. It is crucial for the project owner to thoroughly review each identified item and take necessary actions to resolve them. By carefully examining the technical finding summary, the project owner can gain insights into the weaknesses or potential threats present in the smart contract. They should prioritize addressing these issues promptly to mitigate any risks associated with the contract's security. Neglecting to address any identified item in the security audit can expose the smart contract to significant risks. Unresolved vulnerabilities can be exploited by malicious actors, potentially leading to financial losses, data breaches, or other detrimental consequences. To ensure the integrity and security of the smart contract, the project owner should engage in a comprehensive review process. This involves understanding the nature and severity of each identified item, consulting with experts if needed, and implementing appropriate fixes or enhancements. Regularly updating and maintaining the smart contract's codebase is also essential to address any emerging security concerns. By diligently reviewing and resolving all identified items in the technical finding summary, the project owner can significantly reduce the risks associated with the smart contract and enhance its overall security posture.



## SOCIAL MEDIA CHECKS | ME.

Social Media		URL	Result
Website			Fail
Telegram		<a href="https://t.me/OSKDAOMythicecho">https://t.me/OSKDAOMythicecho</a>	Pass
Twitter		<a href="https://x.com/mythic_echo">https://x.com/mythic_echo</a>	Pass
Facebook			N/A
Reddit			N/A
Instagram			N/A
CoinGecko			N/A
Github			N/A
CMC	N/A		N/A
Email			Contact
Other			N/A

From a security assessment standpoint, inspecting a project's social media presence is essential. It enables the evaluation of the project's reputation, credibility, and trustworthiness within the community. By analyzing the content shared, engagement levels, and the response to any security-related incidents, one can assess the project's commitment to security practices and its ability to handle potential threats.

### Social Media Information Notes:

### Auditor Notes:

### Project Owner Notes:

# ASSESSMENT RESULTS | ME.

## Score Results

Review	Score
Overall Score	79/100
Auditor Score	79/100

Review by Section	Score
Manual Scan Score	36
SWC Scan Score	37
Advance Check Score	6

Our security assessment or audit score system for the smart contract and project follows a comprehensive evaluation process to ensure the highest level of security. The system assigns a score based on various security parameters and benchmarks, with a passing score set at 80 out of a total attainable score of 100. The assessment process includes a thorough review of the smart contracts codebase, architecture, and design principles. It examines potential vulnerabilities, such as code bugs, logical flaws, and potential attack vectors. The evaluation also considers the adherence to best practices and industry standards for secure coding. Additionally, the system assesses the projects overall security measures, including infrastructure security, data protection, and access controls. It evaluates the implementation of encryption, authentication mechanisms, and secure communication protocols. To achieve a passing score, the smart contract and project must attain a minimum of 80 points out of the total attainable score of 100. This ensures that the system has undergone a rigorous security assessment and meets the required standards for secure operation.



## AUDIT FAILED

## ■ Important Notes for ME

- **Ownership Control:** The owner has significant control over the contract, including setting fees, managing blacklists, and controlling trading parameters. Consider implementing a multi-signature wallet for critical functions to enhance security.■
- **Fee Structure:** The contract has multiple fees (buy, sell, transfer, LP-related) that can be adjusted by the owner. Clearly document fee structures and ensure transparency for users.■
- **Liquidity Management:** The contract allows the owner to manage liquidity parameters, which could affect market stability. Implement time-lock mechanisms for changes to liquidity settings to prevent sudden changes.■
- **Blacklist Functionality:** The owner can blacklist addresses, potentially leading to censorship. Ensure the blacklist is used responsibly and consider implementing checks and balances.■
- **External Dependencies:** The contract interacts with external contracts like ISwapRouter and ISwapPair. Ensure these external contracts are audited and trusted.■

- **Gas Optimization:** Functions like `processLPReward` may be gas-intensive. Optimize gas usage and test under various network conditions.■
- **Complexity and Readability:** The contract contains complex logic, particularly around fee calculations and liquidity management. Simplify where possible and provide detailed documentation for better understanding.■
- **Security Best Practices:** Ensure all external calls are properly handled to avoid reentrancy and other common vulnerabilities. Use the latest security patterns and libraries to mitigate potential risks.■
- **Token Distributor:** The `TokenDistributor` contract approves unlimited USDT transfers. Regularly review and monitor the usage of the distributor to prevent misuse.■
- **Testing and Auditing:** Ensure comprehensive testing, including edge cases and stress tests.■
- **Upgradeability:** The contract does not appear to be upgradeable. If future upgrades are anticipated, consider implementing a proxy pattern for upgradeability.■
- **User Communication:** Clearly communicate any changes in fees, blacklists, or trading conditions to users. Establish a communication channel for users to stay informed

about contract updates.

**Auditor Score =79**  
**Audit Fail**



**AUDIT  
FAILED**

## Appendix

### Finding Categories

#### Centralization / Privilege

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

#### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM 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 how `block.timestamp` works.

#### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being 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 may result in a vulnerability.

#### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the 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 requirements on the input variables than a setter function.

#### Coding Best Practices

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

## Disclaimer

The purpose of this disclaimer is to outline the responsibilities and limitations of the security assessment and smart contract audit conducted by Bladepool/CFG NINJA. By engaging our services, the project owner acknowledges and agrees to the following terms:

1. Limitation of Liability: Bladepool/CFG NINJA shall not be held liable for any damages, losses, or expenses incurred as a result of any contract malfunctions, vulnerabilities, or exploits discovered during the security assessment and smart contract audit. The project owner assumes full responsibility for any consequences arising from the use or implementation of the audited smart contract. 2. No Guarantee of Absolute Security: While Bladepool/CFG NINJA employs industry-standard practices and methodologies to identify potential security risks, it is important to note that no security assessment or smart contract audit can provide an absolute guarantee of security. The project owner acknowledges that there may still be unknown vulnerabilities or risks that are beyond the scope of our assessment. 3. Transfer of Responsibility: By engaging our services, the project owner agrees to assume full responsibility for addressing and mitigating any identified vulnerabilities or risks discovered during the security assessment and smart contract audit. It is the project owner's sole responsibility to ensure the proper implementation of necessary security measures and to address any identified issues promptly. 4. Compliance with Applicable Laws and Regulations: The project owner acknowledges and agrees to comply with all applicable laws, regulations, and industry standards related to the use and implementation of smart contracts. Bladepool/CFG NINJA shall not be held responsible for any non-compliance by the project owner. 5. Third-Party Services: The security assessment and smart contract audit conducted by Bladepool/CFG NINJA may involve the use of third-party tools, services, or technologies. While we exercise due diligence in selecting and utilizing these resources, we cannot be held liable for any issues or damages arising from the use of such third-party services. 6. Confidentiality: Bladepool/CFG NINJA maintains strict confidentiality regarding all information and data obtained during the security assessment and smart contract audit. However, we cannot guarantee the security of data transmitted over the internet or through any other means. 7. Not a Financial Advice: Bladepool/CFG NINJA please note that the information provided in the security assessment or audit should not be considered as financial advice. It is always recommended to consult with a financial professional or do thorough research before making any investment decisions.

By engaging our services, the project owner acknowledges and accepts these terms and releases Bladepool/CFG NINJA from any liability, claims, or damages arising from the security assessment and smart contract audit. It is recommended that the project owner consult legal counsel before entering into any agreement or contract.

