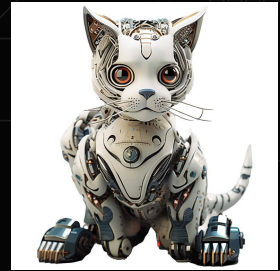




# SECURITY ASSESSMENT GROK 2024 Token






January 1, 2024

Audit Status: Pass












# RISK ANALYSIS | GROK 2024.

## 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	7%
 Sale Tax	7%%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	10%
 Modify Tax	Yes
 Fee Check	Pass
 Is Honeygot?	Not Detected
 Trading Cooldown	Not Detected

Contract Security	Description
● Enable Trade?	False
● Pause Transfer?	Detected
● Max Tx?	Pass
● Is Anti Whale?	Not Detected
● Is Anti Bot?	Not Detected
● 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
● Owner	0x567b681dFBFE759A70Fc9Dd2D3071Fb4ABbd60E7
● Self Destruct?	Not Detected
● External Call?	Detected
● Other?	Not Detected
● Holders	2
● Audit Confidence	Low

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.

CFG Ninja Verified on January 1, 2024

## GROK 2024



## Executive Summary

TYPES

DeFi

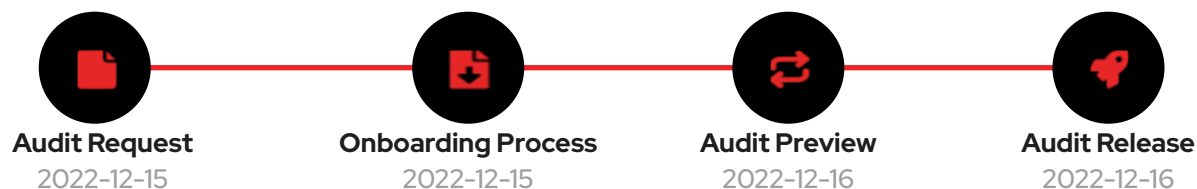
ECOSYSTEM

BNBCHAIN

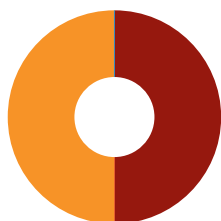
LANGUAGE

Solidity

## Timeline



## Vulnerability Summary



2

Total Findings

0

Resolved

2

Pending

2

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.

## 0 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.

## 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 | GROK 2024.

## Token Distribution

GRK24

### Distribution

Token burnt to create scarcity

0%

### Ecosystem

Grants and partnerships

0%

### Burn

Distribution Phase I is 2%  
Distribution Phase II is 5%  
Distribution Phase III is 5%

0%

### Core Contributor

Current and future core contributor teams

0%

### Seed Investors

16% seed raise

0%

### Development Fund

7% reserved for future development or raise

0%

# PROJECT OVERVIEW | GROK 2024.

## Token Summary

Parameter	Result
Address	0x8E95ABB1E2d2715aC1ae123511A1b4647F4ddE89
Name	GROK 2024
Token Tracker	GROK 2024 (GRK24)
Decimals	18
Supply	1,000,000,000
Platform	BNBCHAIN
compiler	v0.8.19+commit.7dd6d404
Contract Name	TokenTax
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://bscscan.com/token/0x8E95ABB1E2d2715aC1ae123511A1b4647F4ddE89#code">https://bscscan.com/ token/0x8E95ABB1E2d2715aC1ae123511A1b4647F4ddE89#code</a>

## ■ Main Contract Assessed

Name	Contract	Live
GROK 2024	0x8E95ABB1E2d2715aC1ae123511A1b4647F4ddE89	Yes

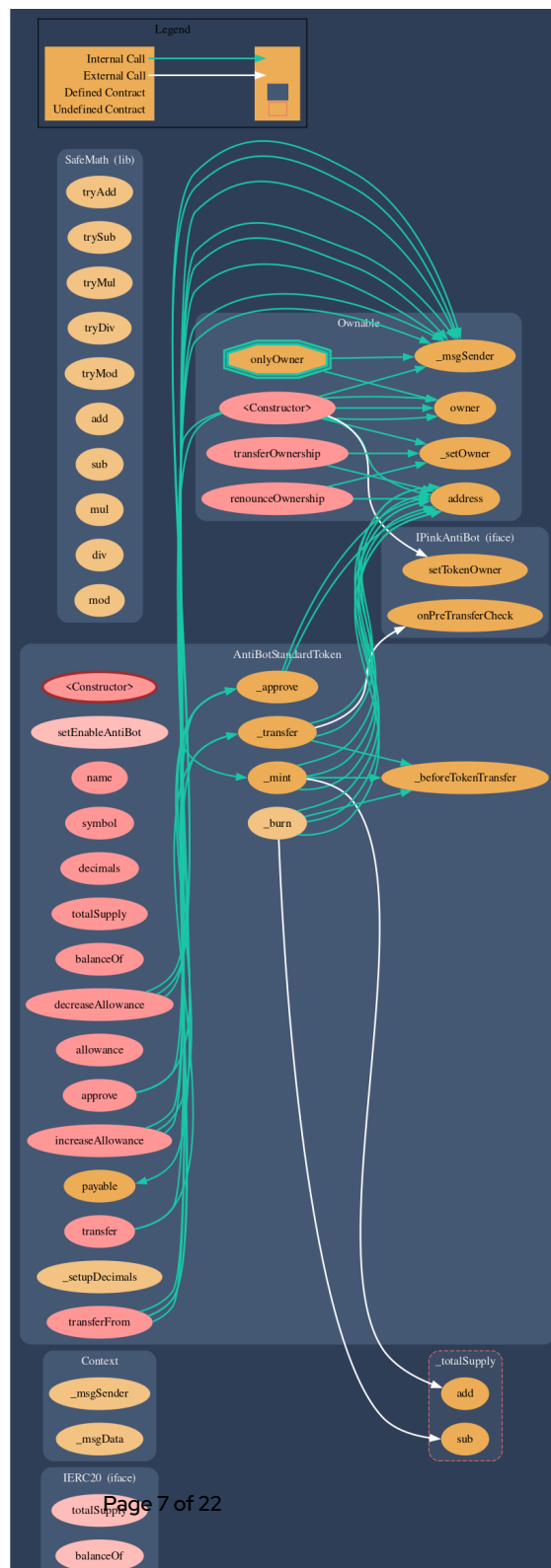
## ■ TestNet Contract Was Not Assessed

## ■ Solidity Code Provided

SolID	File Sha-1	FileName
GRK24	ad741aab3da4075043cf7602bba037d81158c21d2	tokentax.sol

## Call Graph

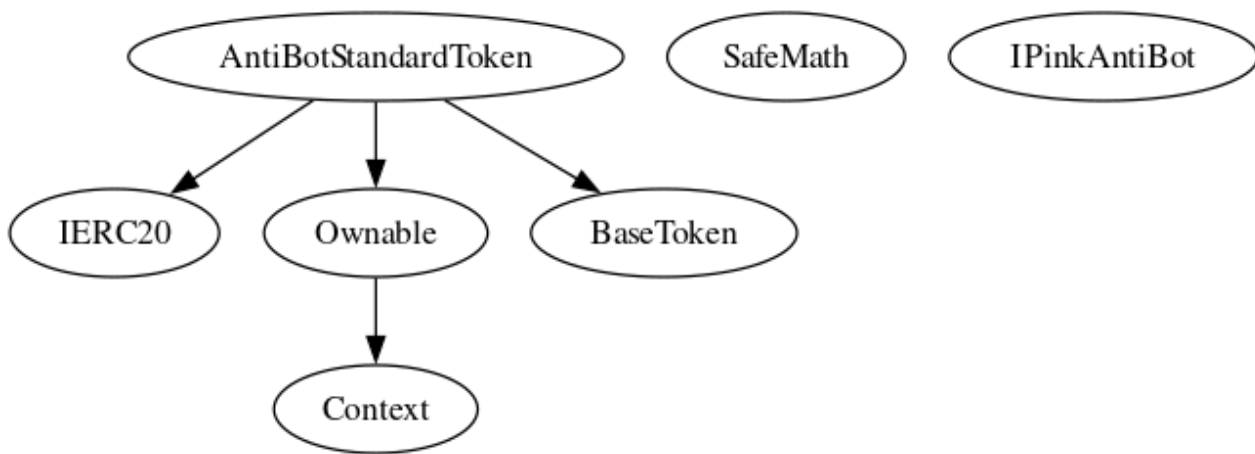
The Smart Contract Graph is a visual representation of the interconnectedness and relationships between smart contracts within a blockchain network. It provides a comprehensive view of the interactions and dependencies between different smart contracts, allowing developers and users to analyze and understand 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.



## Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	tokenax.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	tokenax.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	tokenax.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	tokenax.sol	L: 0 C: 0
SWC-104	Pass	Unchecked Call Return Value.	tokenax.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	tokenax.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	tokenax.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	tokenax.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	tokenax.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	tokenax.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	tokenax.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	tokenax.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	tokenax.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	tokenax.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	tokenax.sol	L: 0 C: 0
SWC-115	Low	Authorization through tx.origin.	tokenax.sol	L: 65 C: 28
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	tokenax.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	tokenax.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	tokenax.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-119	Pass	Shadowing State Variables.	token tax.sol	L: 0 C: 0
SWC-120	Low	Potential use of block.number as source of randomness.	token tax.sol	L: 265 C: 20, L: 398 C: 24
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	token tax.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	token tax.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	token tax.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	token tax.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	token tax.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	token tax.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	token tax.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	token tax.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	token tax.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	token tax.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	token tax.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	token tax.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	token tax.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	token tax.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/ Dead Code).	token tax.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	token tax.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.

## Smart Contract Vulnerability Details | SWC-115 – Authorization through tx.origin.

### CWE-477: Use of Obsolete Function

#### Description:

tx.origin is a global variable in Solidity which returns the address of the account that sent the transaction. Using the variable for authorization could make a contract vulnerable if an authorized account calls into a malicious contract. A call could be made to the vulnerable contract that passes the authorization check since tx.origin returns the original sender of the transaction which in this case is the authorized account.

#### Remediation:

tx.origin should not be used for authorization. Use msg.sender instead.

#### References:

Solidity Documentation – tx.origin

Ethereum Smart Contract Best Practices – Avoid using tx.origin

SigmaPrime – Visibility.

## Smart Contract Vulnerability Details | SWC-120 - Weak Sources of Randomness from Chain Attributes.

### CWE-330: Use of Insufficiently Random Values

#### Description:

Solidity allows for ambiguous naming of state variables when inheritance is used. Contract A with a variable x could inherit contract B that also has a state variable x defined. This would result in two separate versions of x, one of them being accessed from contract A and the other one from contract B. In more complex contract systems this condition could go unnoticed and subsequently lead to security issues.

Shadowing state variables can also occur within a single contract when there are multiple definitions on the contract and function level.

#### Remediation:

Using commitment scheme, e.g. RANDAO. Using external sources of randomness via oracles, e.g. Oraclize. Note that this approach requires trusting in oracle, thus it may be reasonable to use multiple oracles. Using Bitcoin block hashes, as they are more expensive to mine.

#### References:

How can I securely generate a random number in my smart contract?)






When can BLOCKHASH be safely used for a random number? When would it be unsafe?

The Run smart contract.

## TECHNICAL FINDINGS | GROK 2024.



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.

## GRK24-18 | Stop Transactions by using Enable Trade.

Category	Severity	Location	Status
Logical Issue	 Critical	tokentax.sol: L: 1169 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

## GRK24-19 | Centralization Privileges of GRK24.

Category	Severity	Location	Status
Coding Style	 Medium	tokentax.sol: L: 1169 C: 14, L: 1156 C: 14, L: 1145 C: 14, L: 1106 C: 14, L: 1100 C: 14, L: 1145 C: 14, L: 1094 C: , L: 1087 C: 14, L: 1073 C: 14, L: 1063 C: 14, L: 1053 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	address newOwner	Public
setBuyFee		External
setSellFee		External
setMarketingWallet		External
setSwapAndLiquifyEnabled		External
includeInFee		External
excludeFromFee		External
recoverETHfromContract		External
recoverETHfromContract		External



Function Name	Parameters	Visibility
enableTrading		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
<span>●</span> Critical	1	1	0
<span>●</span> High	0	0	0
<span>●</span> Medium	1	1	0
<span>●</span> Low	0	0	0
<span>i</span> Informational	0	0	0
Total	2	2	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 | GROK 2024.

Social Media	URL	Result
Website	<a href="https://Grok2k24.com">https://Grok2k24.com</a>	Pass
Telegram	<a href="https://t.me/Grok2024_BSC">https://t.me/Grok2024_BSC</a>	Pass
Twitter	<a href="https://X.com/Grok2024BSC">https://X.com/Grok2024BSC</a>	Pass
Facebook		N/A
Reddit	N/A	N/A
Instagram		N/A
CoinGecko	N/A	N/A
Github		N/A
CMC	N/A	N/A
Email		Contact
Other	<a href="https://Youtube.com/@Grok2024Official">https://Youtube.com/@Grok2024Official</a>	Pass

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:** Website need improvements.

**Project Owner Notes:**

# ASSESSMENT RESULTS | GROK 2024.

## Score Results

Review	Score
Overall Score	95/100
Auditor Score	90/100

Review by Section	Score
Manual Scan Score	40
SWC Scan Score	33
Advance Check Score	22

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.



## Important Notes for GRK24

- No issues or vulnerabilities were found.
- This is antibot standard token from pinksale.
- The contract has zero tax.

**Auditor Score =90**  
**Audit Passed**



**AUDIT  
PASSED**

## 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.

