

# SMART CONTRACT AUDIT

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PREPARED FOR:

ELON X (AUDIT

PAYMENT PENDING)





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Project Name	Elon x (Audit Payment Pending)				
Symbol	Details will be filled after Payment				
License Type					
Blockchain					
Contract					
Decimals					
Compiler Version					
Contract Link					
Website					
Telegram					
X (Twitter)					
Report Date					



# AUDIT METHODOLOGY

At AnalyticX, our smart contract audits are conducted with precision, following a set of rigorous standards and procedures. Collaboration with our clients is a cornerstone of our effective auditing process. Here's an overview of how we conduct our smart contract audits:

Our onboarding team initiates the process by gathering essential source codes and specifications. This initial step ensures a comprehensive understanding of the smart contract's size and scope, laying the foundation for a thorough audit.

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#### **AUDIT FOCUS**

The primary objective of this audit was to ensure the security, resilience, and adherence to specifications of the Smart Contract System. The audit activities can be categorized into three key areas:



#### Security

Identification of security-related issues within each contract and the overall contract system.



#### Sound Architecture

Evaluation of the system's architecture, aligning it with established smart contract best practices and general software best practices.



#### Code Correctness and Quality

A comprehensive review of the contract source code, with a focus on:

- Accuracy
- Readability
- Sections of code with high complexity
- Quantity and quality of test coverage



Each issue identified in this report has been assigned a severity level, categorized as follows:

## 

These critical risks represent a significant threat, as they can be easily exploited, potentially leading to severe consequences such as asset loss, data manipulation, or both. It is imperative to address these issues promptly.

#### **High Severity Issues**

These risks, while not easily exploitable, are of critical importance to address. They bear an elevated risk of smart contract manipulation, which can escalate to a high-risk severity level.

#### **Medium Severity Issues**

Addressing these risks is essential as they come with an inherent potential for future exploits and hacks. While the impact on smart contract execution may vary, it's advisable to fix low-risk re-entrancy-related vulnerabilities to prevent possible exploits.

#### Low Severity Issues

THREE

These risks, categorized as "Low," don't pose a significant threat to the contract or its users. They primarily involve code-style violations and deviations from standard practices. While not critical, it's advisable to highlight and address these issues for improved code quality.

# **AUDIT GOALS**

At AnalyticX, our smart contract audits are conducted with precision, following a set of rigorous standards and procedures. Collaboration with our clients is a cornerstone of our effective auditing process. Here's an overview of how we conduct our smart contract audits:

#### Manual Audit

In this phase, the code underwent a thorough line-by-line examination by our developers. Additionally, we utilized Remix IDE's JavaScript VM and Kovan networks to test the contract's functionality.

#### **Automated Audit**

In our automated audit, we found no compiler warnings that could affect the contract. Our combined manual and automated assessment ensures the system's robustness, covering security, architecture, and code quality, with corresponding findings and recommendations in this report.

# THREAT SUMMARY

It is engineered to aid users in detecting potential rug pull scams by offering a comprehensive examination of a smart contract's code and pinpointing any potential warning signs that could suggest a scam.



#### IS SOURCE CODE VERIFIED

The contract's source code is verified.

Source code verification provides transparency for users interacting with smart contracts. Block explorers validate the compiled code with the one on the blockchain. This also gives users a chance to audit the contracts.

## PRESENCE OF MINTING FUNCTION

The contract cannot mint new tokens. The \_mint function is not detected in the contract. Mint functions are used to create new tokens and transfer them to the user's/owner's wallet to whom the tokens are minted. This increases the overall circulation of the tokens.

### PRESENCE OF BURN FUNCTION

The tokens can not be burned in this contract.

Burn functions are used to increase the total value of the tokens by decreasing the total supply.

# SOLIDITY PRAGMA VERSION

The contract can be compiled with an older Solidity version.

Pragma versions decide the compiler version with which the contract can be compiled.

Having older pragma versions means that the code may be compiled with outdated and vulnerable compiler versions, potentially introducing vulnerabilities and CVEs.

## ▼ PROXY-BASED UPGRADABLE CONTRACT

This is not an upgradable contract.

Having upgradeable contracts or proxy patterns allows owners to make changes to the contract's functions, token circulation, and distribution.

## OWNERS CANNOT BLACKLIST TOKENS OR USERS

Owners can blacklist tokens or users.

If the owner of a contract has permission to blacklist users or tokens, all the transactions related to those entities will be halted immediately.

# IS ERC-20 TOKEN

The contract was found to be using ERC-20 token standard.

ERC-20 is the technical standard for fungible tokens that defines a set of properties that makes all the tokens similar in type and value.

# THREAT SUMMARY

# PAUSABLE CONTRACTS

This is not a Pausable contract.

If a contract is pausable, it allows privileged users or owners to halt the execution of certain critical functions of the contract in case malicious transactions are found.

### CRITICAL ADMINISTRATIVE FUNCTIONS

Critical functions that add, update, or delete owner/admin addresses are not detected These functions control the ownership of the contract and allow privileged users to add, update, or delete owner or administrative addresses. Owners are usually allowed to control all the critical aspects of the contract.

### CONTRACT/TOKEN SELF DESTRUCT

The contract cannot be self-destructed by owners. selfdestruct() is a special function in Solidity that destroys the contract and transfers all the remaining funds to the address specified during the call. This is usually access-control protected.

# **ERC20 RACE CONDITION**

The contract is vulnerable to ERC-20 approve Race condition vulnerability. ERC-20 approve function is vulnerable to a frontrunning attack which can be exploited by the token receiver to withdraw more tokens than the allowance. Proper mitigation steps should be implemented to prevent such vulnerabilities.

### RENOUNCED OWNERSHIP

The administrator has renounced their ownership. Renounced ownership shows that the contract is truly decentralized and once deployed, it can't be manipulated by administrators.

## **SOLUTION STATE OF ST**

Some addresses contains more than 5% of circulating token supply. 0x058ddd19255e3878e350c1bf3816f25bc7cf3f79 70.667% 0xa84b18772109efe27bb19d29892c03897aac1a9f 28.571%

## **OVERPOWERED OWNERS**

The contracts are using 1 function that can only be called by the owners.

Giving too many privileges to the owners via critical functions might put the user's funds at risk if the owners are compromised or if a rug-pulling attack happens.



# THREAT SUMMARY

# COOLDOWN FEATURE

The contract does not have a cooldown feature.

Cooldown functions are used to halt trading or other contract workflows for a certain amount of time so as to prevent users from repeatedly executing transactions or buying and selling tokens.

## OWNERS WHITELISTING TOKENS/USERS

Owners can whitelist tokens or users.

If the owner of a contract has permission to whitelist users or tokens, it'll be unfair toward other users or the transaction flow may not be executed impartially.

# OWNERS CAN SET/UPDATE FEES

Owners can set or update Fees in the contract.

#### HARDCODED ADDRESSES

The contract was hardcoding addresses in the code. This may represent that those parameters can never be changed or updated unless it's a proxy contract. It is recommended to go through the code to know more about these hardcoded values and its use.

### OWNERS UPDATING TOKEN BALANCE

The contract does not have any owner-controlled functions modifying token balances for users or the contract

## **OWNER WALLET TOKEN SUPPLY**

The Owner's wallet contains 12366750.0 tokens, more than 5% of the circulating supply

### FUNCTION RETRIEVING OWNERSHIP

No such functions were found

If this function exists, it is possible for the project owner to regain ownership even after relinquishing it.



# **AUDIT SUMMARY**

AnalyticX has conducted comprehensive automated and manual analyses of Solidity Smart Contract code, meticulously reviewing it for common contract vulnerabilities and centralized Susceptibilities. Here's a brief summary of our audit findings:

Status	Critical	High	Medium	Low	Unknown
Open	2	O	1	2	О
Acknowledged	0	0	0	0	1
Resolved	0	0	0	0	0

In the realm of blockchain technology, it's essential to acknowledge that deployed smart contracts are not impervious to potential exploits, vulnerabilities, or hacks. These contracts operate within the context of emerging technologies, and as such, they inherently carry an ongoing level of risk. To gain a comprehensive understanding of the severity of these risks, vulnerabilities in the source code, and the limitations of our audit, we strongly urge you to thoroughly review the complete audit report.

One critical aspect to emphasize is that centralization privileges, regardless of their assigned risk status, exert a significant influence on the safety and security of smart contracts. These privileges can have a notable impact on the overall integrity of the contract.

Please keep in mind that blockchain technology and cryptographic assets are at the forefront of innovation, and the risks associated with them are dynamic. To delve into the specifics and access comprehensive information, we recommend referring to the disclaimer for full limitation of this audit.



# Token liquidity (pairs) not found. Acknowledgement: Liquidity will be added and locked before launch



# Dump Risk A private wallet owns a significant percentage of this token's total supply. Acknowledgement:



## Missing Zero Address Validation

Low Risk

Location #487

Some functions in this contract may not appropriately check for zero addresses being used.

Relevant Function Snippet address serviceFeeReceiver\_,

**Acknowledgement:** 

#### **Location in Code**

AntiBotStandardToken.constructor(string,string,uint8,uint256,address,address,uint256).serviceFeeReceiver\_

(AntiBotStandardToken.sol#487) lacks a zero-check on:

- address(serviceFeeReceiver\_).transfer(serviceFee\_ (AntiBotStandardToken.sol#506)



# Public Functions Should be Declared External

#### Low Risk

Location #516, #524, #541, #548, #555, #573, #586, #603

Some functions in this contract should be declared as external in order to save gas.

Relevant Function Snippet:

function name() public view virtual returns (string memory) {
 return \_name;

}

function symbol() public view virtual returns (string memory) { return \_symbol;} function decimals() public view virtual returns (uint8) { return \_decimals;}

function totalSupply() public view virtual override returns (uint256) { return \_totalSupply; } function balanceOf(address account) public view virtual override returns (uint256) return \_balances[account];}

function transfer(address recipient, uint256 amount) public virtual override returns (bool) \_transfer(\_msgSender(), recipient, amount); return true;}

function allowance(address owner, address spender) public view virtual override returns (uint256) return \_allowances[owner][spender];}

function approve(address spender, uint256 amount) public virtual override returns (bool) \_approve(\_msgSender(), spender, amount); return true;}

#### Acknowledgement:

name() should be declared external: - AntiBotStandardToken.name()

(AntiBotStandardToken.sol#516-518)

symbol() should be declared external: - AntiBotStandardToken.symbol()

(AntiBotStandardToken.sol#524-526)

decimals() should be declared external: - AntiBotStandardToken.decimals()

(AntiBotStandardToken.sol#541-543)

totalSupply() should be declared external: - AntiBotStandardToken.totalSupply()

(AntiBotStandardToken.sol#548-550)

balanceOf(address) should be declared external: -

AntiBotStandardToken.balanceOf(address) (AntiBotStandardToken.sol#555-563)

transfer(address,uint256) should be declared external: -

AntiBotStandardToken.transfer(address,uint256) (AntiBotStandardToken.sol#573-581)

allowance(address,address) should be declared external: -

 $AntiBotStandardToken. allowance (address, address) \ (AntiBotStandardToken. sol \#586-594) \\$ 

approve(address,uint256) should be declared external: -

AntiBotStandardToken.approve(address,uint256) (AntiBotStandardToken.sol#603-611)

transferFrom(address,address,uint256) should be declared external: -



AnalyticX is committed to providing comprehensive audits of Solidity source codes, commonly known as smart contracts. In our meticulous analysis, we focus on identifying vulnerabilities, centralization exploits, and potential cybersecurity concerns within the framework and algorithms of the audited smart contract.

This limited report represents a condensed summary of our findings, reflecting industry best practices as of the report's date. It is important to emphasize that while we have undertaken rigorous efforts to assess and compile this report, it should not be solely relied upon. We cannot assume liability for the report's contents, production, or implications. It is imperative that you conduct your independent investigations before making any decisions related to the audited smart contract.

#### **SCOPE OF AUDIT**

Our audit scope predominantly revolves around the security analysis of the smart contract code itself. It does not extend to other areas beyond the programming language, such as the compiler layer. Furthermore, this audit report does not cover broader project aspects, including business models or legal compliance. It's crucial to note that this report does not guarantee the absolute absence of bugs within the smart contract.

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AnalyticX is a leading provider of intelligent blockchain solutions, specializing in a wide range of services to enhance your blockchain project. Our expertise encompasses solidity development, comprehensive testing, and rigorous auditing services.

AnalyticX has a expertise across major public blockchains, including Ethereum, Binance Smart Chain, Cronos, Dogecoin, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, and many more. We're committed to contributing to the growth and success of various blockchain ecosystems.

#### Our Team

Our dedicated team at AnalyticX is comprised of skilled engineers, developers, UI experts, and passionate blockchain enthusiasts. With a core team of 4 members and the support of over 6 casual contributors, we bring a wealth of experience and innovative thinking to every project we undertake.

We thank you for your continued support in our efforts to contribute to the Security of Blockchain and Crypto space. At AnalyticX, we're dedicated to helping you achieve your blockchain goals with intelligence and innovation.

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