

KISHIELD

Security Audit

MTEDAO Token

April 15, 2022





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Audit Summary

This report has been prepared for MTEDAO Token on the Binance Chain network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Project Overview

Token Summary

Parameter	Result
Address	0x24CB01DDf4Bfe8eFc0e205eC5c2ef859bB214FeD
Name	MTEDAO
Token Tracker	MTEDAO (MTE)
Decimals	9
Supply	10,000,000,000
Platform	Binance Chain
compiler	v0.8.4+commit.c7e474f2
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/ address/0x24CB01DDf4Bfe8eFc0e205eC5c2ef859bB214FeD
Url	https://mtedao.com

Main Contract Assessed

Name	Contract	Live
MTEDAO	0x24CB01DDf4Bfe8eFc0e205eC5c2ef859bB214FeD	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	✓ Low / No Risk
Code With No Effects	Complete	Complete	✓ Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	✓ Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	✓ Low / No Risk
Unexpected Ether balance	Complete	Complete	✓ Low / No Risk
Presence of unused variables	Complete	Complete	✓ Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	✓ Low / No Risk
Typographical Error	Complete	Complete	✓ Low / No Risk
DoS With Block Gas Limit	Complete	Complete	✓ Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	✓ Low / No Risk
Insufficient Gas Griefing	Complete	Complete	✓ Low / No Risk
Incorrect Inheritance Order	Complete	Complete	✓ Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	✓ Low / No Risk
Requirement Violation	Complete	Complete	✓ Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	✓ Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	✓ Low / No Risk

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	✓ Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	✓ Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	✓ Low / No Risk
Assert Violation	Complete	Complete	✓ Low / No Risk
Reentrancy	Complete	Complete	✓ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✓ Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	✓ Low / No Risk
Unchecked Call Return Value	Complete	Complete	✓ Low / No Risk
Outdated Compiler Version	Complete	Complete	✓ Low / No Risk
Integer Overflow and Underflow	Complete	Complete	✓ Low / No Risk
Function Default Visibility	Complete	Complete	✓ Low / No Risk

Contract Ownership

The contract ownership of MTEDAO is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0xe1f713FB721D8a653D5F1B482CA51C369fdb386 which can be viewed from: [HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

Important Notes To The Users:

- The owner cannot mint tokens after initial deployment.
- The owner cannot stop Trading.
- The owner cannot set the fees over 25%.
- The owner cannot change the max tx amount.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can add/remove addresses from fees and rewards.
- The owner can enable/disable the auto liquidity mechanism.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

Audit Passed



Findings Summary

Classification of Issues

Severity	Description
● High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency
● Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
● Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
● Info	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

Findings

Severity	Found
● High	0
● Medium	0
● Low	0
● Info	4
Total	4

Findings

Variables could be declared as constant

ID	Severity	Contract	Function
01	● Informational	MTEDAO	variables _name, _symbol, _decimals, _tTotal

Description

Gas Optimization. Variables that are never changed could be declared as constant.

Recommendation

We recommend declaring those variables as constant.

Public function that could be declared external

ID	Severity	Contract	Function
02	● Informational	MTEDAO	Functions renounceOwnership, transferOwnership, excludeFromReward, excludeFromFee, includeInFee, setSwapAndLiquifyEnabled

Description

Gas Optimization. Public function that could be declared external

Recommendation

Public functions that are never called by the contract should be declared external to save gas.

Missing events arithmetic

ID	Severity	Contract	Function
03	Informational	MTEDAO	Missing events for setTaxFeePercent, setLiquidityFeePercent

Description

Functions that change critical arithmetic parameters should emit an event.

Recommendation

Emit corresponding events for critical parameter changes.

Tautology

ID	Severity	Contract	Function
04	Informational	MTEDAO	Tautology in require condition for taxFeeBps_, liquidityFeeBps_, charityFeeBps_

Description

When using '>= 0' for uint256 this comparison is always true as uint cannot be negative and the default value is 0.

Recommendation

Fix the incorrect comparison by changing the value type or the comparison.

Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
excludeFromReward	address account	public
includeInReward	address account	external
excludeFromFee	address account	public
includeInFee	address account	public
setTaxFeePercent	uint256 taxFeeBps	external
setLiquidityFeePercent	uint256 liquidityFeeBps	external
setSwapAndLiquifyEnabled	bool _enabled	public

Statistics

Liquidity Info

Parameter	Result
Pair Address	0x1b36432F5Ef054Bb51CbBeC6591C8e965c403838
MTE Reserves	0.00 MTE
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

Token (MTE) Holders Info

Parameter	Result
MTE Percentage Burnt	0.00%
MTE Amount Burnt	0 MTE
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	10,000,000,000 MTE
Top 10 Aprox Value	\$NaN USD

LP (MTE/BNB) Holders Info

Parameter	Result
MTE/BNB % Burnt	0.00%
MTE/BNB Amount Burnt	0 MTE
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 MTE
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 MTE

* All the data displayed above was taken on-chain at block 16976796

* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 16976796

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Disclaimer

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