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## KYC & AUDIT.

Novos is an agency specializing in blockchain technology solutions, Audits, KYC / Doxx.

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# CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS

CryptomilesToken | Audit Passed | August 12, 2022

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# Audit Summary

This report has been prepared for Cryptomiles Token on the Binance Chain network. Novos 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.

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# Project Overview

| Parameter | Result |
|---|---|
| Address | 0xa1a1b353c116A42cE6C44C12b0E9d7A0aC24F040 |
| Name | CryptoMilesToken |
| Token Tracker | CML |
| Decimals | 18 |
| Supply | 990,000,000 |
| Platform | Binance Chain |
| Compiler | v0.8.11+commit.d7f03943 |
| Optimization | No with 200 runs |
| Other Settings: | default evmVersion |
| Language | Solidity |
| Codebase | https://bscscan.com/address/0xa1a1b353c116a42ce6c44c12b0e9d7a0ac24f040#code |
| Url | https://www.cryptomiles.net/ |

# Main Contract Assessed

| Name | Contract | Live |
|---|---|---|
| **CryptoMilesToken** | 0xa1a1b353c116A42cE6C44C12b0E9d7A0aC24F040 | Yes |

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# 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** |



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# Smart Contract Vulnerability Checks

| 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** |



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# Contract Ownership

The contract ownership o fCryptomiles Token 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.
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01

The current owner is the address 0x9fF3B5E01d0Fe977f6A2aA32b6a196306b32d2c3 which can be viewed from: HERE

02

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

03

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.

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# Important Notes To The Users:

01 Author: Rodrigo Bezerra (Blocks & Chains Solutions) - LINK

02 {ERC20} token, including: - Preminted initial supply - Ability for holders to burn (destroy) their tokens - No access control mechanism (for minting/pausing) and hence no governance

03 Sets `amount` as the allowance of `spender` over the caller's tokens. Returns a boolean value indicating whether the operation succeeded.

04 Additionally, an {Approval} event is emitted on calls to {transferFrom}. This allows applications to reconstruct the allowance for all accounts just by listening to said events. Other implementations of the EIP may not emit these events, as it isn't required by the specification.

05 Hook that is called before any transfer of tokens. This includes minting and burning. To learn more about hooks, head to xref:ROOT:extending-contracts.adoc#using-hooks[Using Hooks].

06 Hook that is called after any transfer of tokens. This includes * minting and burning.

07 A large team is represented on the project website, which inspires additional confidence in the project.

08 In conclusion, there is not a single comment on the project.

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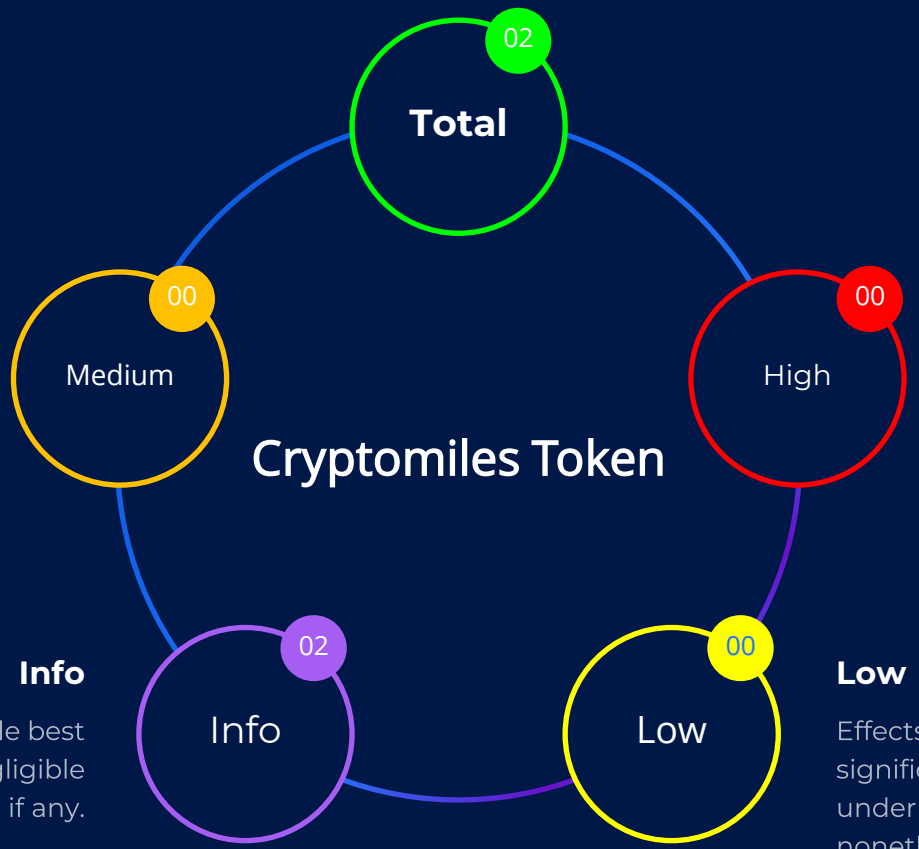
# Technical Findings Summary

## Classification of Issues

**Total**

What you should pay attention to




**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.

**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

**Info**

Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

**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.

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# Findings

## Public function that could be declared external

| ID | Severity | Contract | Function |
|---|---|---|---|
| 01 | Informational | Cryptomiles Token | Functions: size, getKeyAtIndex, getIndexOfKey |

**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.

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# Findings

## Missing events arithmetic

| ID | Severity | Contract | Function |
|---|---|---|---|
| 02 | Informational | Cryptomiles Token | Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier |

### Description

Functions that change critical arithmetic parameters should emit an event.

### Recommendation

Emit corresponding events for critical parameter changes.

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# Priviliged Functions (onlyOwner & Others)

| Function Name | Parameters | Visibility |
|---|---|---|
| ✓ renounceOwnership | ▪ none | ▪ **external** |
| ✓ transferOwnership | ▪ address newOwner | ▪ **public** |
| ✓ prepareForPartherOrExchang eListing | ▪ address_partnerOrExchangeAddress | ▪ **external** |
| ✓ setWalletBalance | ▪ uint256 _maxWalletBalance | ▪ **external** |
| ✓ setMaxBuyTransaction | ▪ uint256 _maxTxn | ▪ **external** |
| ✓ setMaxSellTransaction | ▪ uint256 _maxTxn | ▪ **external** |
| ✓ updateBusdDividendToken | ▪ address _newContract | ▪ **external** |
| ✓ updateMarketingWallet | ▪ address _newWallet | ▪ **external** |
| ✓ setSwapTokensAtAmount | ▪ uint256 _swapAmount | ▪ **external** |
| ✓ setSellTransactionMultiplier | ▪ uint256 _multiplier | ▪ **external** |
| ✓ setTradingIsEnabled | ▪ none | ▪ **external** |
| ✓ setBusdDividendEnabled | ▪ bool _enabled | ▪ **external** |
| ✓ setMarketingEnabled | ▪ bool _enabled | ▪ **external** |
| ✓ setSwapAndLiquifyEnabled | ▪ bool _enabled | ▪ **external** |
| ✓ updatebusdDividendTracker | ▪ address newAddress | ▪ **external** |
| ✓ updateUniswapV2Router | ▪ address newAddress | ▪ **external** |

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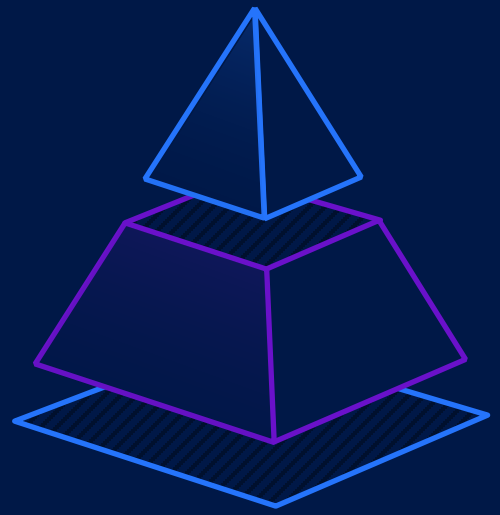
# Priviliged Functions (onlyOwner & Others)

| Function Name | Parameters | Visibility |
|---|---|---|
| ✓ excludeFromFees | ▪ address account, bool excluded | ▪ **public** |
| ✓ excludeFromDividend | ▪ address account | ▪ **public** |
| ✓ setAutomatedMarketMakerP air | ▪ address pair, bool value | ▪ **external** |
| ✓ updateGasForProcessing | ▪ uint256 newValue | ▪ **external** |
| ✓ updateMinimumBalanceForDi vidends | ▪ uint256 newMinimumBalance | ▪ **external** |
| ✓ updateClaimWait | ▪ uint256 claimWait | ▪ **external** |
| ✓ processDividendTracker | ▪ uint256 gas | ▪ **external** |



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# Statistics

## Liquidity Info

| Parameter | Result |
| --- | --- |
| Pair Address | 0x18B6946BCA5A725C729d69de93bB75E2D64E1995 |
| CML Reserves | 94.0105043274727810 08 CML |
| Reserves, BNB | 0.0131381228248233 71 WBNB |
| Liquidity Value | $ 4.25 |

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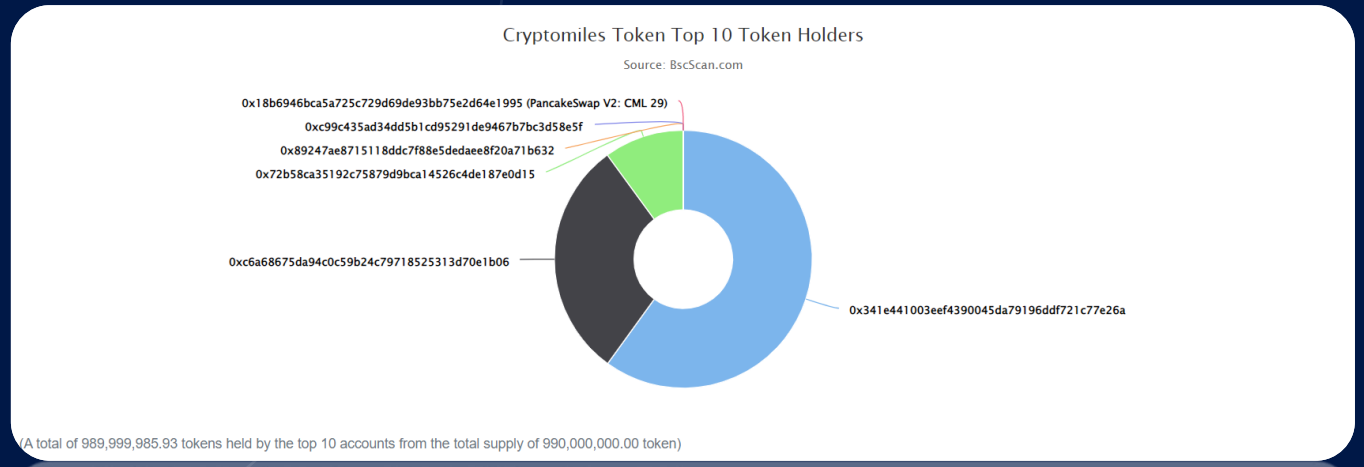
# Statistics

## Token (CML) Holders Info

| Parameter | Result |
|---|---|
| CML Percentage Burnt | 0.00% |
| FCC Amount Burnt | 0.00 CML |
| Top 10 Percentage Own | 100 % |
| Top 10 Amount Owned | 989,999,985.93 CML |



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# Disclaimer

Novos has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocation for the Project that was audited, and users relying on this audit 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 may be pursued by the Project in question, and that 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 completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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