

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

MHCASH



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	0	
Medium	0	
Low	0	
Informational	0	

Centralization Risks

Owner Privileges	Description	
Can Owner Set Taxes >25% ?	Not Detected	
Owner needs to enable trading?	Not Detected	
Can Owner Disable Trades?	Not Detected	
Can Owner Mint ?	Not Detected	
Can Owner Blacklist ?	Not Detected	
Can Owner set Max Wallet amount?	Not Detected	
Can Owner Set Max Transfer amount ?	Not Detected	



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OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Audit Result	Passed
KYC Verification	-
Audit Date	26 July 2023



CONTRACT DETAILS

Token Name: MHCASH

Symbol: MHCASH

Network: Binance smart chain

Language: Solidity

Contract Address:

0xd58B8747307936D1324bf8c40F45687c7Bacc6B9

Total Supply:3,000,000,000

Owner's Wallet:

Deployer's Wallet:

0x8CDA16E7584Bf3e574e8e17120374637363a301F

Testnet:

https://testnet.bscscan.com/token/0xA39572f1398a2dCCA

2A84248D5a27958576E3723



AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat



VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

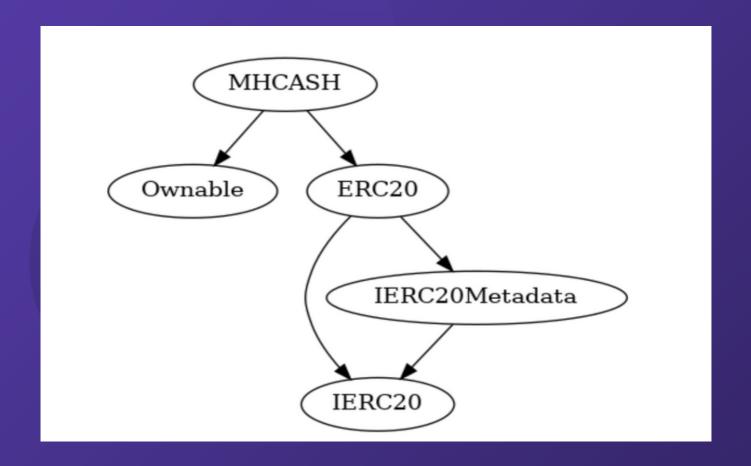
Issues on this level are minor details and warning that can remain unfixed.

Informational

Issues on this level are minor details and warning that can remain unfixed.



INHERITANCE TREES





FUNCTION DETAILS

```
| Contract |
   L | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| **Ownable** | Implementation | ||| | | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | | left | onlyOwner |
| L | transferOwnership | Public ! | | onlyOwner |
| L | transferOwnership | Internal | | | |
| **IERC20** | Interface | |||
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External ! | NO! |
| L | approve | External | | | NO | |
| L | transferFrom | External ! | | NO! |
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External | | NO | |
| L | symbol | External | | NO ! |
| L | decimals | External | | | NO | |
| **ERC20** | Implementation | IERC20, IERC20Metadata |||
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | transfer | Public | | | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public ! | | NO! |
| L | increaseAllowance | Public ! | | NO! |
```



FUNCTION DETAILS



TESTNET VERSION

Adding Liquidity

Tx:

https://testnet.bscscan.com/tx/0xd6deac122eae73bdcb798a548d01b8125d9f052650dde227905fd780ca166972

Buying **Y**

Tx (0% tax):

https://testnet.bscscan.com/tx/0x1053c1a1216353219f49f2795908843eb086588bb3 c1a1f7253432a450d1a6e9

Selling V

Tx (0% tax):

https://testnet.bscscan.com/tx/0xf9b4afae8dca6f37b6acd1240f71ce69453a0322f19b59590c303600ee7abcff

Transferring
Tx (0% tax):

https://testnet.bscscan.com/tx/0x27bccc6675d70b0c64e4d7bac0e7cec9705ea8442 0bb6231d7d06c937fac23ce



MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standarts.

Vulnerabilities are dividend into three primary risk categroies:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity							
Impact	HIGH	Medium	High	Critical			
	MEDIUM	Low	Medium	High			
	LOW	Note	Low	Medium			
		LOW	MEDIUM	HIGH			
	Likelihood						



ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up.
Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

www.expelee.com

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Building the Futuristic Blockchain Ecosystem



DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantess against the sale of team tokens or the removal of liquidity by the project audited in this document.

Always do your own research and project yourselves from being scammed. The Expelee team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools.

Under no circumstances did Expelee receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Alway do your own research and protect yourselves from scams.

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