TECH • RATE

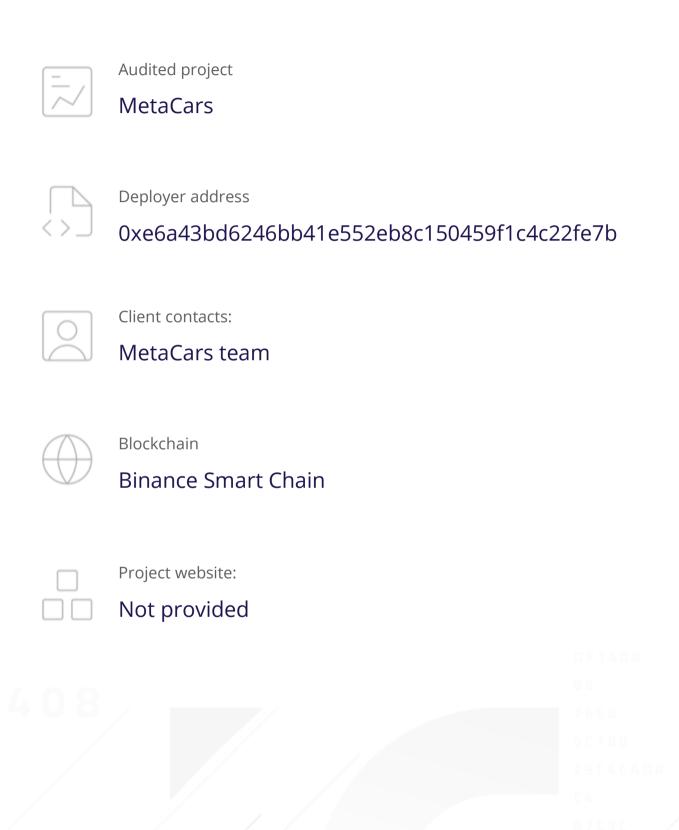
SMART CONTRACTS SECURITY **AUDIT REPORT**







Audit Details





Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.



Background

TechRate was commissioned by MetaCars to perform an audit of smart contracts:

https://bscscan.com/address/0x1Ba7882594726616468945e1Aa01563B756aC3Da#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.



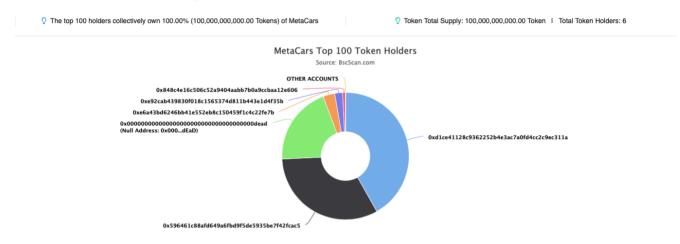
Contracts Details

Token contract details for 04.06.2022

Contract name	MetaCars
Contract address	0x1Ba7882594726616468945e1Aa01563B756aC3Da
Total supply	100,000,000,000
Token ticker	MTC
Decimals	9
Token holders	6
Transactions count	6
Top 100 holders dominance	100.00%
Total fees	0
Tax fee B/S	2/5
Liquidity fee B/S	3/5
Uniswap V2 pair	0xfd2a05c610e50c79c5ac6ee167a569605b1d4dd0
Contract deployer address	0xe6a43bd6246bb41e552eb8c150459f1c4c22fe7b
Owner address	0x000000000000000000000000000000000000

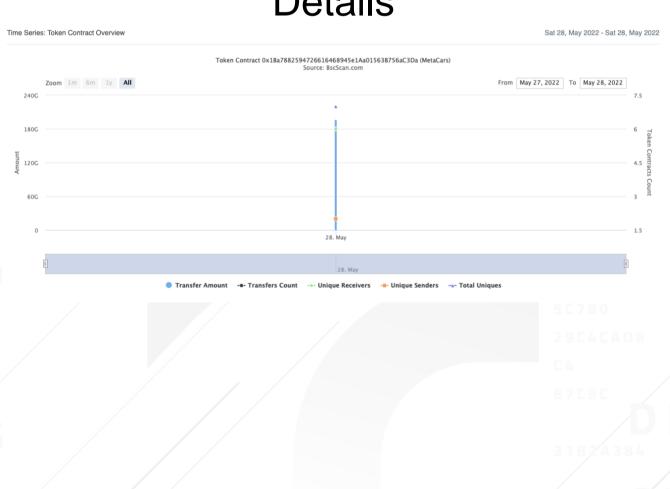


MetaCars Token Distribution



(A total of 100,000,000,000,000.00 tokens held by the top 100 accounts from the total supply of 100,000,000,000,000 token)

MetaCars Contract Interaction Details



MetaCars Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1		41,787,360,000	41.7874%
2	₫ 0x596461c88afd649a6fbd9f5de5935be7f42fcac5	32,488,387,200	32.4884%
3	Null Address: 0x000dEaD	20,000,000,000	20.0000%
4	0xe6a43bd6246bb41e552eb8c150459f1c4c22fe7b	3,000,000,000	3.0000%
5	₫ 0xe92cab439830f018c1565374d811b443e1d4f35b	2,000,000,000	2.0000%
6	■ 0x848c4e16c506c52a9404aabb7b0a9ccbaa12e606	724,252,800	0.7243%



65 76C6 5C780 29C4CAD8 C4 87C9C



Contract functions details

- + Context
 - [Int] _msgSender
 - [Int] _msgData
- + Ownable (Context)
 - [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner
 - [Pub] transferOwnership #
 - modifiers: onlyOwner
 - [Pub] getUnlockTime
 - [Pub] getTime
 - [Pub] lock #
 - modifiers: onlyOwner
 - [Pub] unlock #
- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + [Int] IUniswapV2Factory
 - [Ext] getPair
 - [Ext] createPair #
- + [Int] IUniswapV2Pair
 - [Ext] factory
- + [Int] IUniswapV2Router
 - [Ext] factory
 - [Ext] WETH
 - [Ext] addLiquidityETH (\$)
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + [Lib] Address
 - [Int] isContract
 - [Int] sendValue #
 - [Int] functionCall #
 - [Int] functionCall #

- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+ MetaCarsTokenBSC (Context, IERC20, Ownable)

- [Pub] <Constructor> (\$)
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Pub] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Pub] approve #
- [Ext] transferFrom #
- [Ext] increaseAllowance #
- [Ext] decreaseAllowance #
- [Ext] isExcludedFromReward
- [Ext] totalFees
- [Pub] setBuyBackEnabled #
 - modifiers: onlyOwner
- [Ext] minimumTokensBeforeSwapAmount
- [Ext] setNumTokensSellToAddToLiquidity #
 - modifiers: onlyOwner
- [Pub] setAutomatedMarketMakerPair #
 - modifiers: onlyOwner
- [Prv] setAutomatedMarketMakerPair #
- [Ext] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Pub] includeInReward #
 - modifiers: onlyOwner
- [Prv] approve #
- [Prv] _transfer #

- [Ext] calltheSAVIOUR #
 - modifiers: onlyOwner
- [Prv] swapTokens #
 - modifiers: lockTheSwap
- [Prv] transferToAddressETH #
- [Prv] buyBackTokens #
 - modifiers: lockTheSwap
- [Prv] swapTokensForEth #
- [Prv] swapETHForTokens #
- [Ext] addToAirdrop #
 - modifiers: onlyOwner
- [Ext] removeFromAirdrop #
 - modifiers: onlyOwner
- [Prv] swapTokensForETH #
- [Prv] addLiquidity #
- [Prv] tokenTransfer #
- [Prv] _transferStandard #
- [Prv] transferToExcluded #
- [Prv] transferFromExcluded #
- [Prv] transferBothExcluded #
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] getRValues
- [Prv] _getRate
- [Prv] getCurrentSupply
- [Prv] _takeLiquidity #
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Ext] isExcludedFromFee
- [Ext] excludeFromFee #
- modifiers: onlyOwner
- [Ext] includeInFee #
 - modifiers: onlyOwner
- [Ext] setMarketingAddress #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- (\$) = payable function # = non-constant function

Issues Checking Status

	Issue description	Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed 0780
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

No high severity issues found.

No medium severity issues found.

No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can enable/disable buyback.
- Owner can change minimumTokensBeforeSwap.
- Owner can include in automatedMarketMakerPairs array.
- Owner can manually call buyback.
- Owner can mark addresses as airdrop.
- Owner can exclude from the fee.
- Owner can change marketing.
- Owner can enable/disable swapAndLiquifyEnabled.
- Owner can lock and unlock. By the way, using these functions the owner could leave as owner even after the ownership was renounced.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.