

Smart Contract Security Audit

Audit details:

Audited project: HyperMeteor

Deployer address: 0x5823e709c38fa606de3744b1341001e8981a6737

Client contacts: HyperMeteor team

Blockchain: Binance Smart Chain

Project website: Not provided

May, 2021 TechRate

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 below 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 HyperMeteor to perform an audit of smart contracts:

• https://bscscan.com/address/0x1fe38769ed41fe7f47270c78d2f0507b508d06f 0#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.

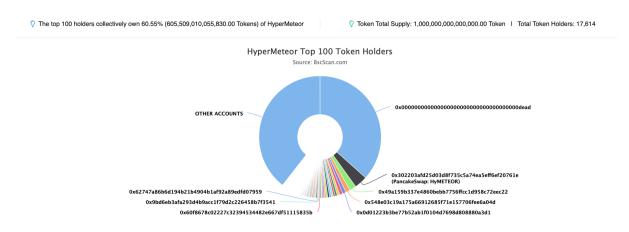
The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts details

Token contract details for 13.05.2021.

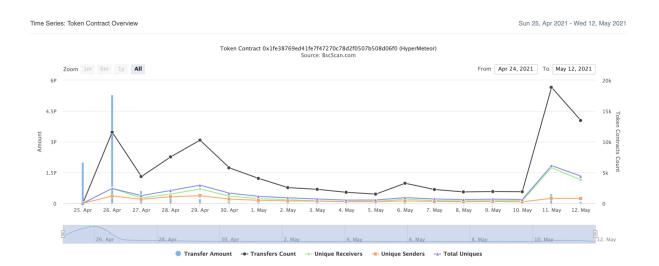
Contract name:	HyperMeteor
Contract address:	0x1fe38769ed41fe7f47270c78d2f0507b508d06f0
Total supply:	100000000000000000000000000000000000000
Token ticker:	HyMETEOR
Decimals:	18
Token holders:	17614
Transactions count:	98863
Top 100 holders dominance:	60.55 %
Fase:	fase 4 SLOWING
Unlock time:	0
Supply:	633781632736204928112914327112039
Contract deployer address:	0x5823e709c38fa606de3744b1341001e8981a6737
Contract's current owner address:	0x000000000000000000000000000000000000

HyperMeteor token distribution



 $(A\ total\ of\ 605, 509, 010, 055, 830.00\ tokens\ held\ by\ the\ top\ 100\ accounts\ from\ the\ total\ supply\ of\ 1,000,000,000,000,000.00\ token)$

HyperMeteor contract interaction details



HyperMeteor top 10 token holders

Rank	Address	Quantity (Token)	
1	0x000000000000000000000000000000000000	366,213,443,317,997.037342999212388672	36.6213%
2	PancakeSwap: HyMETEOR	34,698,515,163,277.394569866597265329	3.4699%
3	0x49a159b337e4860bebb7756ffcc1d958c72eec22	17,984,508,612,176.976383209109438716	1.7985%
4	0x548e03c19a175a66912685f71e157706fee6a04d	11,670,442,695,811.222387640163813263	1.1670%
5	0x0d01223b3be77b52ab1f0104d7698d808880a3d1	8,912,627,920,132.640791704772511097	0.8913%
6	0x0aa2ffbd5fce42b240bc6987f67ab2c6f3e841c6	8,177,009,406,602.361929024901007875	0.8177%
7	0x300e08a7367ae91e33111967bbaf55447ca896f0	6,757,296,553,317.63734692915893994	
8	0xf7e1c7f10b970de09aba41b97eccdc91cf94d0d0	5,440,706,821,318.162482346225341628	0.5441%
9	0x7ecdb750c97d5a567d39ac5a40deeae545e5ff5a	5,322,544,805,548.832594319612029765	0.5323%
10	0x6ff6dfac4b8bea957dc48aad626d7631c2ba208c	5,000,115,795,673.50752291847532325	0.5000%

Contract functions details

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Int] functionStaticCall
- [Int] functionStaticCall
- [Int] functionDelegateCall #
- [Int] functionDelegateCall #
- [Prv] _verifyCallResult

+ Context

- [Int] _msgSender
- [Int] _msgData

+ Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Pub] geUnlockTime
- [Pub] lock #
 - modifiers: onlyOwner
- [Pub] unlock #

+ meteor (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf

- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Prv] getTransferFee
- [Pub] tokenFromReflection
- [Prv] _getRate
- [Pub] _getSupply
- [Prv] _getCurrentSupply
- [Int] _approve #
- [Pub] excludeFromFees #
 - modifiers: onlyOwner
- [Pub] includeInFees #
 - modifiers: onlyOwner
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Pub] setFeesState #
 - modifiers: onlyOwner
- [Pub] getFeeInfo
- [Pub] getFase
- [Pub] isExcludedFromFee
- [Pub] isExcludedFromReward
- (\$) = payable function
- # = non-constant function

Issues Checking Status

Nº	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.	Low issues
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
20	Safe Open Zeppelin contracts implementation and usage.	Passed
21	Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

1. Out of gas

Issue:

- ☐ The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT OF GAS exception if there will be a long excluded addresses list.
- ☐ The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

Recommendation:

Use EnumerableSet instead of arrays or do not use long arrays. Also check that excluded list is not too big.

Conclusion

Smart contracts do not contain high severity issues!

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.