



# **Smart Contract Security Audit**

TechRate
July, 2021

## **Audit Details**



**Audited project** 

**Hora Os** 



Deployer address

0xcC47db1CE1Eb99Dbb2BB93A779D89C7bBe0007BC



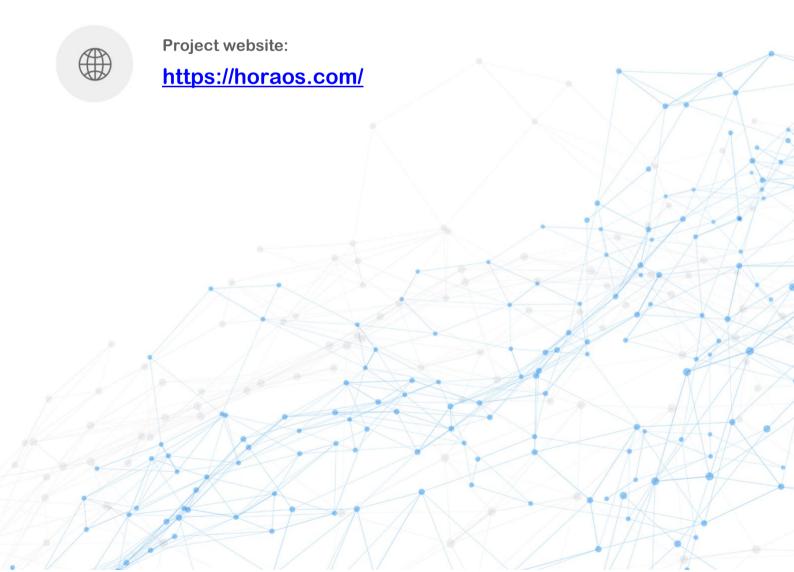
**Client contacts:** 

Hora Os team



Blockchain

**Binance Smart Chain** 



### **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 Hora Os to perform an audit of smart contracts:

 $\frac{https://bscscan.com/address/0xa6fd7b5c9eee30309b00b65436a284e2053251e5\#cod}{e}$ 

### 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.

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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.

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# **Contracts Details**

### Token contract details for 18.07.2021

Contract name	Hora Os
Contract address	0xA6Fd7B5C9eee30309B00B65436a284e2053251e5
Total supply	10,000,000,000
Token ticker	HORA
Decimals	18
Token holders	30,776
Transactions count	32,520
Top 100 holders dominance	100.00%
Contract deployer address	0xcC47db1CE1Eb99Dbb2BB93A779D89C7bBe0007 BC
Contract's current owner address	0x575aed18a82501087aea483180c60f12b70b5a70

## **Hora Os Token Distribution**

The top 100 holders collectively own 100.00% (9,999,986,634.53 Tokens) of Hora Os

7 Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 30,776



(A total of 9.999.986.634.53 tokens held by the top 100 accounts from the total supply of 10.000.000.000.000 token)

# Hora Os Contract Interaction Details

--- Unique Receivers --- Unique Senders

-e- Transfers Count

# **Hora Os Top 10 Token Holders**

Rank	Address	Quantity (Token)	Percentage
1	0x4ba0c0ebc78b4d66bc2c97fe9aee8c623098d786	1,000,000,000	10.0000%
2	0x5eb52880614a415522865869043c62e9b0e51b04	1,000,000,000	10.0000%
3	0xe6f6dec14881ebc4d457aa651f2ec02ebaf76257	1,000,000,000	10.0000%
4	0x9af5638a74441ac29c88315ab7c02973c285b6ee	1,000,000,000	10.0000%
5	0xe2c09fab16eca7b03baa83c757c12acf17ee47f1	1,000,000,000	10.0000%
6	0x23fbd613c572b3ef83f7af4adbc0adedb1cd7107	200,000,000	2.0000%
7	0x0ced319a6a0594c53614f93edc43225be4b5c7d4	200,000,000	2.0000%
8	0xd9132d094dda80c77ddd9560f36be6047157a2c9	200,000,000	2.0000%
9	0xe2465d67edf6862002492cb18d68851666a71d95	200,000,000	2.0000%
10	0x78923e2f98a8a3bec0b50d5e7b34a1646a31620e	200,000,000	2.0000%



### **Contract functions details**

### + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div - [Int] mod - [Int] mod + Ownable (Context) - [Int] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner - [Int] \_transferOwnership # + [Int] IBEP20 - [Ext] totalSupply - [Ext] decimals - [Ext] symbol - [Ext] name - [Ext] getOwner - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + Context - [Int] <Constructor> # - [Int] msgSender - [Int] msgData + BEP20Token (Context, IBEP20, Ownable) - [Int] initialize # - [Ext] mintable - [Ext] decimals - [Ext] symbol - [Ext] name - [Ext] getOwner - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom #

- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #

- [Pub] mint # - modifiers: onlyOwner
- [Pub] burn #
- [Int] \_transfer #
- [Int] \_mint #
- [Int] \_burn #
- [Int] \_approve #
- [Int] \_burnFrom #
- + Token (BEP20Token)
   [Pub] <Constructor> #
- (\$) = 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
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

### **Security Issues**

- ✓ Medium Severity Issues
   No medium severity issues found.
- Low Severity Issues
   No low severity issues found.

### 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.





