TECH RATE

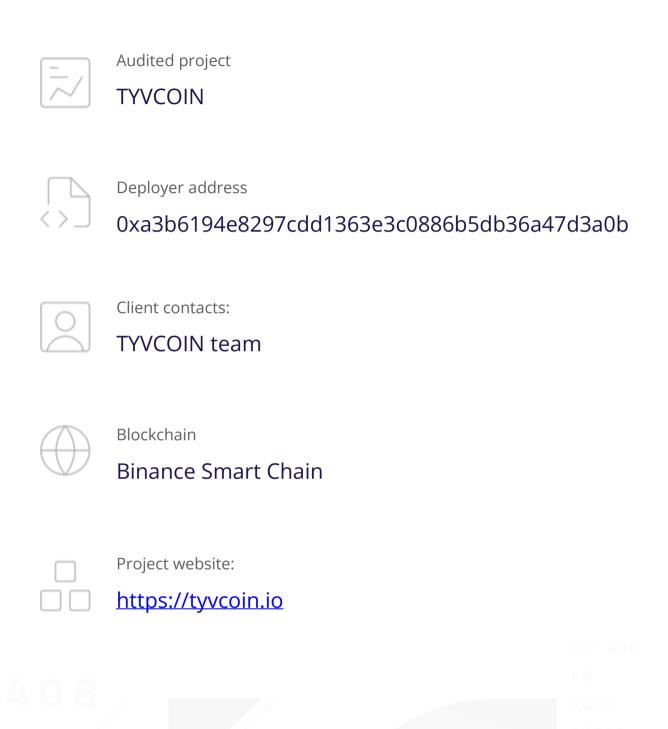
SMART CONTRACTS SECURITY **AUDIT REPORT**







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 TYVCOIN to perform an audit of smart contracts:

https://bscscan.com/token/0x90a8bbf934fde975555632addcb258e895c69de1#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

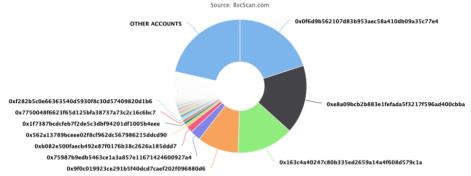
Token contract details for 04.12.2022

Contract name	TYVCOIN			
Contract address	0x90a8BbF934Fde975555632aDdcb258E895C69de1			
Total supply	15,000,000			
Token ticker	TYV			
Decimals	8			
Token holders	7,203			
Transactions count	28,024			
Top 100 holders dominance	78.53%			
Contract deployer address	0xa3b6194e8297cdd1363e3c0886b5db36a47d3a0b			
Owner address	0xa3b6194e8297cdd1363e3c0886b5db36a47d3a0b			



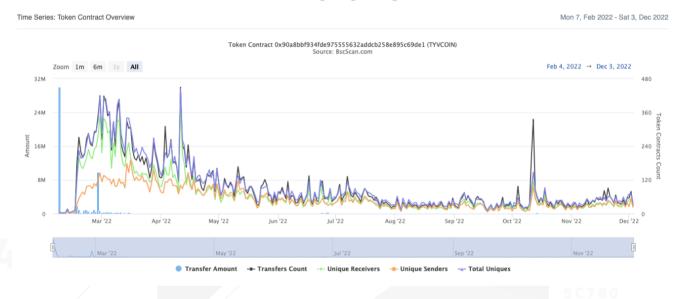
TYVCOIN Token Distribution





(A total of 11,778,941.45 tokens held by the top 100 accounts from the total supply of 15,000,000.00 token)

TYVCOIN Contract Interaction Details





TYVCOIN Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x0f6d9b562107d83b953aec58a410db09a35c77e4	3,000,000	20.0000%
2	0xe8a09bcb2b883e1fefada5f3217f596ad400cbba	2,500,000	16.6667%
3	0x163c4a40247c80b335ed2659a14a4f608d579c1a	2,067,693.68640058	13.7846%
4	0x9f0c019923ce291b5f40dcd7caef202f096880d6	1,500,000	10.0000%
5	0x75987b9edb5463ce1a3a857e11671424600927a4	379,796.3846538	2.5320%
6	0xb082e500faecb492e87f0176b38c2626a185ddd7	240,379.67772046	1.6025%
7	0x562a13789bceee02f8cf962dc567986215ddcd90	102,469.239	0.6831%
8	0x1f7387bcdcfeb7f2de5c3dbf94201df1005b4eee	100,000	0.6667%
9	0x7750048f6623f65d125bfa38737a73c2c16c6bc7	79,811.01	0.5321%
10	0xf282b5c0e66363540d5930f8c30d57409820d1b6	70,000	0.4667%

65 76C6 5C780 29C4C

87C9C D I



Contract functions details

+ [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

+ [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 #

+ BEP20Token (Context, IBEP20, Ownable)

- [Pub] <Constructor> #
- [Ext] getOwner
- [Ext] decimals
- [Ext] symbol

- [Ext] name
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] mint #
 - modifiers: onlyOwner
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _burnFrom #
- (\$) = payable function # = non-constant function

1408

TECH RATE

DF1408
65
76C6
5C780
29C4CAD8
C4
87C9C

65

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 1780
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

- High Severity IssuesNo high severity issues found.
- Medium Severity IssuesNo medium severity issues found.
- Low Severity IssuesNo low severity issues found.



Testnet deployment

Contracts Description Table

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
TYVCOIN	Implementation			
L	<u>transfer</u>	Public 🌡		NO
L	<u>transferFrom</u>	Public J		NO.
L	<u>approve</u>	Public 🛮		NO
L	<u>mint</u>	Public .		NO

Legend

Symbol Meaning

Function can modify state

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.

Security score: 95.

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.