TechRate

AUDIT COMPANY

Smart Contract Security Audit

TechRate

June, 2021

Audit Details

Audited project

Kommunitas

Deployer address

0x24A472b5188CA4D8a37a41b16bEE8f83735e5e69

Client contacts:

Kommunitas team

Blockchain

Polygon

Project website:

https://www.kommunitas.net

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 Kommunitas to perform an audit of smart contracts:

https://polygonscan.com/address/0xc004e2318722ea2b15499d6375905d75ee5390b8#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.
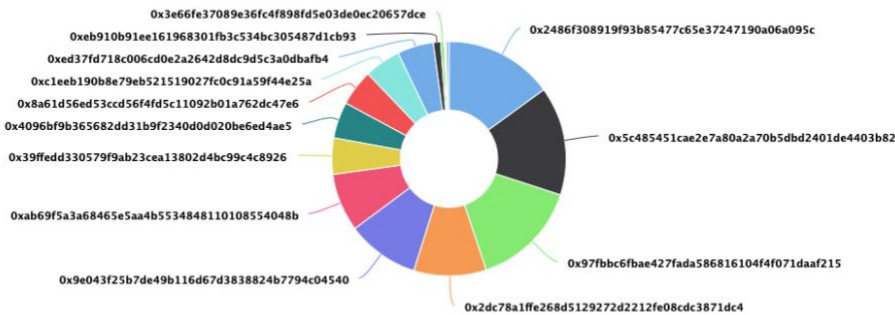
Contracts Details

Token contract details for 30.06.2021

Contract name	Kommunitas
Contract address	0xC004e2318722EA2b15499D6375905d75Ee5390B8
Total supply	40,000,000,000
Token ticker	KOM
Decimals	8
Token holders	472
Transactions count	634
Top 100 holders dominance	99.62%
Contract deployer address	0x24A472b5188CA4D8a37a41b16bEE8f83735e5e69
Contract's current owner address	0xd0e76724838924eeb3e8e3b9c6d49ef9c2e38dbe

Kommunitas Token Distribution

The top 100 holders collectively own 99.62% (39,848,158,131.26 Tokens) of Kommunitas

Token Total Supply: 40,000,000,000.00 Token | Total Token Holders: 472

Kommunitas Top 100 Token Holders
Source: polygonscan.com

0x3e66fe37089e36fc4f898fd5e03de0ec20657dce
0xeb910b91ee161968301fb3c534bc305487d1cb93
0xed37fd718c006cd0e2a2642d8dc9d5c3a0dbafb4
0xc1eeb190b8e79eb521519027fc0c91a59f44e25a
0x8a61d56ed53ccd56f4fd5c11092b01a762dc47e6
0x4096bf9b365682dd31b9f2340d0d020be6ed4ae5
0x39ffedd330579f9ab23cea13802d4bc99c4c8926
0xab69f5a3a68465e5aa4b5534848110108554048b
0x9e043f25b7de49b116d67d3838824b7794c04540

0x2486f308919f93b85477c65e37247190a06a095c
0x5c485451cae2e7a80a2a70b5dbd2401de4403b82
0x97fbbc6fbae427fada586816104f4f071daaf215
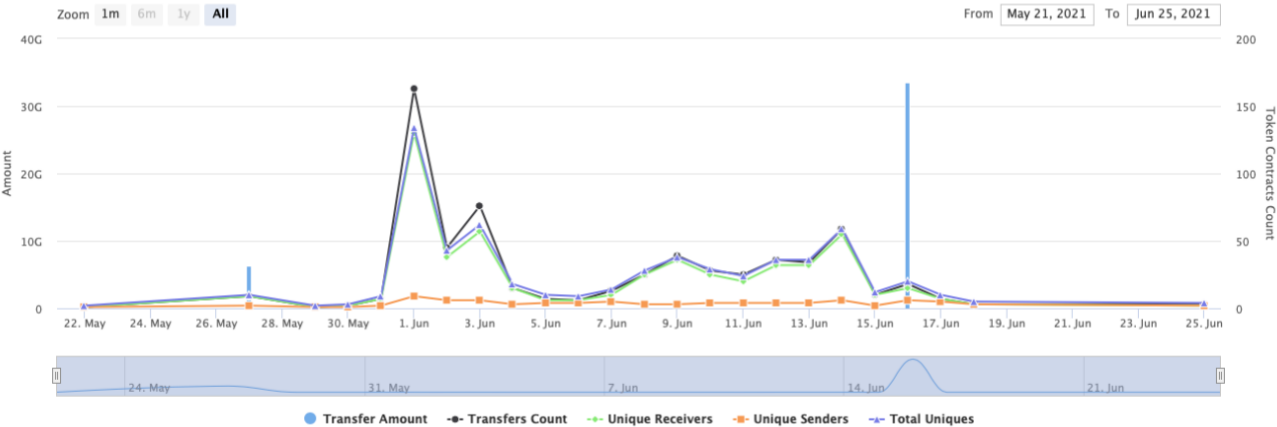0x2dc78a1ffe268d5129272d2212fe08cdc3871dc4

(A total of 39,848,158,131.26 tokens held by the top 100 accounts from the total supply of 40,000,000,000.00 token)

Kommunitas Contract Interaction Details

Time Series: Token Contract Overview

Sat 22, May 2021 - Fri 25, Jun 2021

Token Contract 0xc004e2318722ea2b15499d6375905d75ee5390b8 (Kommunitas)
Source: polygonscan.com

Zoom 1m 6m 1y All

From May 21, 2021 To Jun 25, 2021

● Transfer Amount -●- Transfers Count -●- Unique Receivers -■- Unique Senders -▲- Total Uniques

Kommunitas Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x2486f308919f93b85477c65e37247190a06a095c	6,000,000,000	15.0000%
2	0x5c485451cae2e7a80a2a70b5dbd2401de4403b82	6,000,000,000	15.0000%
3	0x97fbbc6fbae427fada586816104f4f071daaf215	5,947,705,876	14.8693%
4	0x2dc78a1ffe268d5129272d2212fe08cdc3871dc4	4,000,000,000	10.0000%
5	0x9e043f25b7de49b116d67d3838824b7794c04540	4,000,000,000	10.0000%
6	0xab69f5a3a68465e5aa4b5534848110108554048b	3,200,000,000	8.0000%
7	0x39ffedd330579f9ab23cea13802d4bc99c4c8926	2,000,000,000	5.0000%
8	0x4096bf9b365682dd31b9f2340d0d020be6ed4ae5	2,000,000,000	5.0000%
9	0x8a61d56ed53ccd56f4fd5c11092b01a762dc47e6	2,000,000,000	5.0000%
10	0xc1eeb190b8e79eb521519027fc0c91a59f44e25a	2,000,000,000	5.0000%

Contract functions details

+ ERC20Basic
- **[Pub]** totalSupply
- **[Pub]** balanceOf
- **[Pub]** transfer **#**

+ [Lib] SafeMath
- **[Int]** mul
- **[Int]** div
- **[Int]** sub
- **[Int]** add

+ BasicToken (ERC20Basic)
- **[Pub]** totalSupply
- **[Pub]** transfer **#**
- **[Pub]** balanceOf

+ ERC20 (ERC20Basic)
- **[Pub]** allowance
- **[Pub]** transferFrom **#**
- **[Pub]** approve **#**

+ StandardToken (ERC20, BasicToken)
- **[Pub]** transferFrom **#**
- **[Pub]** approve **#**
- **[Pub]** allowance
- **[Pub]** increaseApproval **#**
- **[Pub]** decreaseApproval **#**

+ Ownable
- **[Pub]** <Constructor> **#**
- **[Pub]** renounceOwnership **#**
  - modifiers: onlyOwner
- **[Pub]** transferOwnership **#**
  - modifiers: onlyOwner
- **[Int]** _transferOwnership **#**

+ MintableToken (StandardToken, Ownable)
- **[Pub]** mint **#**
  - modifiers: hasMintPermission,canMint
- **[Pub]** finishMinting **#**
  - modifiers: onlyOwner,canMint

+ FreezableToken (StandardToken)
- **[Pub]** balanceOf
- **[Pub]** actualBalanceOf
- **[Pub]** freezingBalanceOf
- **[Pub]** freezingCount
- **[Pub]** getFreezing
- **[Pub]** freezeTo **#**
- **[Pub]** releaseOnce **#**
- **[Pub]** releaseAll **#**

- [Int] toKey
- [Int] freeze **#**

+ BurnableToken (BasicToken)
- **[Pub]** burn **#**
- **[Int]** _burn **#**

+ Pausable (Ownable)
- **[Pub]** pause **#**
  - modifiers: onlyOwner,whenNotPaused
- **[Pub]** unpause **#**
  - modifiers: onlyOwner,whenPaused

+ FreezableMintableToken (FreezableToken, MintableToken)
- **[Pub]** mintAndFreeze **#**
  - modifiers: onlyOwner,canMint

+ Consts

+ MainToken (Consts, FreezableMintableToken, BurnableToken, Pausable)
- **[Pub]** <Constructor> **#**
- **[Pub]** name
- **[Pub]** symbol
- **[Pub]** decimals
- **[Pub]** transferFrom **#**
- **[Pub]** transfer **#**
- **[Prv]** init **#**

($) = 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

⊘ High Severity Issues

No high severity issues found.

⊘ Medium Severity Issues

No medium severity issues found.

⊘ Low Severity Issues

No low severity issues found.

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

RnD wallet :
https://dxsale.app/app/pages/dxlockview?id=1&add=0x2dC78a1fFe268D5129272D2212FE08CdC3871dC4&type=tokenlock&chain=Matic

https://dxsale.app/app/pages/dxlockview?id=0&add=0x2dC78a1fFe268D5129272D2212FE08CdC3871dC4&type=tokenlock&chain=Matic

Incubator Grant Wallet :
https://dxsale.app/app/pages/dxlockview?id=0&add=0xAb69f5a3a68465e5Aa4b5534848110108554048B&type=tokenlock&chain=Matic

Foundation Wallet :
https://dxsale.app/app/pages/dxlockview?id=0&add=0x9E043F25b7de49B116d67d3838824B7794c04540&type=tokenlock&chain=Matic

Staking Rewards Wallet :
https://dxsale.app/app/v2_9/dxlockview?id=0&add=0x5c485451caE2E7A80A2a70B5Dbd2401de4403b82&type=tokenlock&chain=Matic

Marketing Wallet :
https://dxsale.app/app/v2_9/dxlockview?id=0&add=0xED37fD718c006cd0E2a2642D8dc9D5C3A0DbAFb4&type=tokenlock&chain=Matic

Charity Wallet :
https://dxsale.app/app/v2_9/dxlockview?id=0&add=0x8a61D56ed53ccD56f4Fd5C11092b01a762dc47e6&type=tokenlock&chain=Matic

Partnership Wallet :

https://dxsale.app/app/v2_9/dxlockview?id=0&add=0x39Ffedd33057 9F9AB23CeA13802D4bc99C4C8926&type=tokenlock&chain=Matic

Team Wallet :

https://dxsale.app/app/v2_9/dxlockview?id=0&add=0x4096BF9b365 682DD31b9f2340d0D020bE6eD4Ae5&type=tokenlock&chain=Matic

Advisor Wallet :

https://dxsale.app/app/v2_9/dxlockview?id=0&add=0xC1eEB190b8e 79eb521519027fc0C91a59F44E25a&type=tokenlock&chain=Matic

TechRate note:

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