HackSafe

Smart Contract Security Audit Report

BTCMACROECON

January 2023

Security Status

★★★★½

www.hacksafe.io

Audit Details

Audited project
BTCMACROECON

Deployer address
0x27f0baf305f6486dfec3560bba44f3d9574f5d00

Client contacts
BTCMACROECON

Blockchain
Ethereum

Website
Not provided

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.

DISCLAIMER: By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice. No one shall have any right to rely on the report or its contents, and TechRate and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (HackSafe) owe no duty of care towards you or any other person, nor does HackSafe make any warranty or representation to any person on the accuracy or completeness of the report. The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and HackSafe hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, HackSafe hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against HackSafe, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report.

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.

Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

Background

HackSafe was commissioned by BTCMACROECON to perform an audit of smart contracts:

- https://etherscan.io/token/0xf77089f2F00fca83501705b711Cbb10a0De77628#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 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.

Contract Details

Token contract details for 19.01.2023

Token Type	: DEFI
Contract name	: HumanStandardToken
Contract address	: 0xf77089f2F00fca83501705b711Cbb10a0De77628
Total supply	: 50,000,000
Token ticker	: BMC
Decimals	: 0
Token Holders	: 65
Transactions count	: 136
Compiler version	: v0.3.5+commit.5f97274
Contract deployer address	: 0x27f0baf305f6486dfec3560bba44f3d9574f5d00
Owner address	: No owner

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are “**secure**”. This token contract does not contain owner control, which do make it fully decentralized.

Insecure	Poor secured	Secure	Well-secured

You are here 

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low.

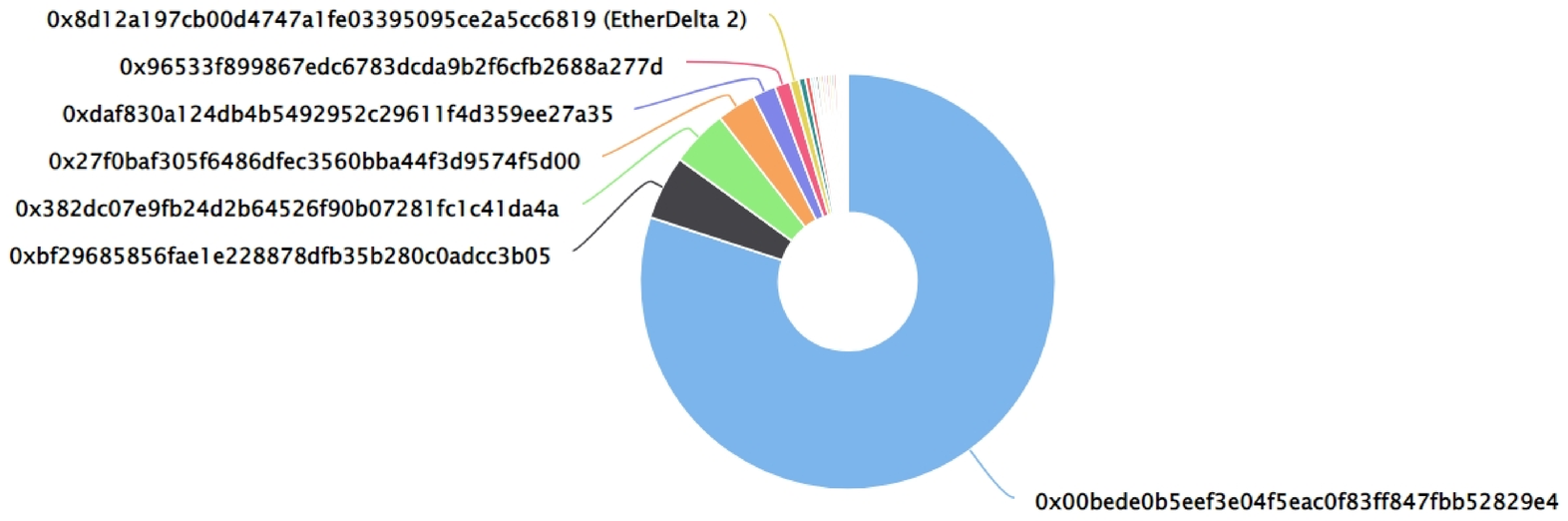
BTCMACROECON Token Distribution

The top 100 holders collectively own 100.00% (50,000,000.00 Tokens) of BTCMACROECON

Token Total Supply: 50,000,000.00 Token | Total Token Holders: 65

BTCMACROECON Top 100 Token Holders

Source: Etherscan.io



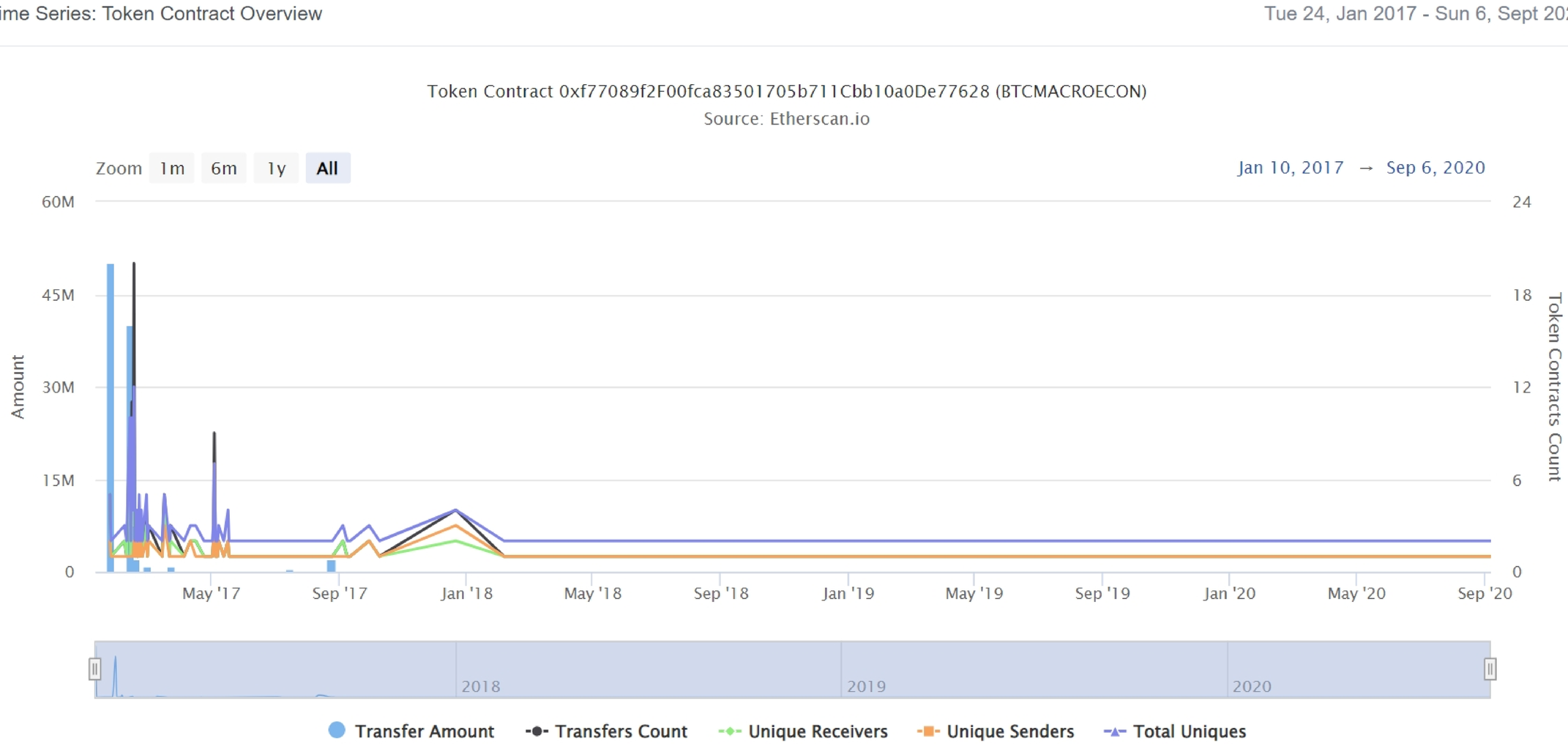
BTCMACROECON Token Top 20 Token Holders

(A total of 50,000,000.00 tokens held by the top 100 accounts from the total supply of 50,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x00bede0b5eef3e04f5eac0f83ff847fbb52829e4	40,000,000	80.0000%
2	0xbf29685856fae1e228878dfb35b280c0adcc3b05	2,500,000	5.0000%
3	0x382dc07e9fb24d2b64526f90b07281fc1c41da4a	2,226,184	4.4524%
4	0x27f0baf305f6486dfec3560bba44f3d9574f5d00	1,518,399	3.0368%
5	0xdaf830a124db4b5492952c29611f4d359ee27a35	900,000	1.8000%
6	0x96533f899867edc6783dcda9b2f6cfb2688a277d	600,105	1.2002%
7	EtherDelta 2	359,709	0.7194%
8	0xc0c19b4668eab1492063fbab8f7d20efd762ead3	250,000	0.5000%
9	0xf2da5add7c6f8a47997efa04049ee7888542744b	200,000	0.4000%
10	0x0936f601ae2cba761562bef719aa263ea72b83f2	110,000	0.2200%
11	0x38ba233c9c2f1878203140b81a8b089e4c722e36	100,000	0.2000%
12	0x1537ce397a817f32c06f894a2d8baffeef64ae29	100,000	0.2000%
13	0x009d7053fb15023f7090a15e52eb71df2d0a0f37	100,000	0.2000%
14	0x9ded6e6d5ee0d32187e53f98f08e55429f820e77	100,000	0.2000%
15	0xf6abb80f11f269e4500a05721680e0a3ab075ecf	100,000	0.2000%
16	0x32f79f9c3aae56adaac54ea68d60b58cce3dc8de	100,000	0.2000%
17	0xe068ab6e9d1dc859688ae424ba738b9d6220e97b	100,000	0.2000%
18	0x5687886a49298356fcec1978ebe0b8b4d0cbd14e	100,000	0.2000%
19	0x01c68de2a7a84bf0a58797c53aa91f08cf2a6cbf	100,000	0.2000%
20	0x39677e1c40ac89290b87173d4f28542816bd077d	60,000	0.1200%

BTCMACROECON Token Distribution

BTCMACROECON Contract overview



Contract functions details

+Token

- -totalSupply
- -balanceOf
- -transfer
- -transferFrom
- -approve

+StandardToken (Token)

- - transfer #
- - transferFrom #
- - balanceOf
- - approve #
- - allowance

+ HumanStandardToken (StandardToken)

- - HumanStandardToken #
- - approveAndCall #

($) = payable function
= non-constant function

Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	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.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Low issue

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

Security Issues

- **Critical Severity Issues**
  No critical severity issue found.
- **High Severity Issues**
  No high severity issue found.
- **Medium Severity Issues**
  No medium severity issue found.
- **Low Severity Issues**
  One low severity issue found.

1. Old compiler version

- **Description**
  Contract has been deployed using too old solidity version.
- **Recommendation**
  It is advisable to deploy contract using any of the latest version of solidity.

Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe 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.