HackSafe

Smart Contract Security Audit Report

Lite USD

July 2022

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
Lite USD

Deployer address
0x72D68379560d7580CF95d0a33922198920F8F2Fe

Client contacts
Lite USD

Blockchain
Binance Smart Chain

Website
https://liteusd.com/

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.

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 Lite USD to perform an audit of smart contracts:

- https://bscscan.com/address/0x4a846d300f793752ee8bd579192c477130c4b369#code

The purpose of the audit was to achieve the

- Ensutre 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 08.07.2022

Token Type	: BEP20
Contract name	: ERC20
Contract address	: 0x4a846D300F793752eE8bd579192C477130C4B369
Compiler version	: v0.8.14+commit.80d49f37
Total supply	: 100,000,000
Token Ticker	: LITE
Decimals	: 18
Token Holders	: 6,951
Top 100 token holder's dominance	: 99.60 %
Transactions count	: 133,134
Contract deployer address	: 0x72D68379560d7580CF95d0a33922198920F8F2Fe
Owner address	: No Owner

Social profiles

Twitter Profile	: https://twitter.com/LiteUsd
Telegram Profile	: https://t.me/liteusd
Coinmarketcap profile	: https://coinmarketcap.com/currencies/lite-usd/

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
Tokenomics : • **Name** : LITE • **Symbol** : LITE • **Decimals** : 18 • **Protocol** : BEP20 • **Total supply** : 100,000,000 • **Contract address** :0x4a846D300F793752eE8bd579192C477130C4B369	YES, this is valid.

Audit Summary

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

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 0 low and some very low-level issues. These issues are not critical ones.

LITE Token Distribution

The top 100 holders collectively own 99.60% (99,598,545.88 Tokens) of LITE

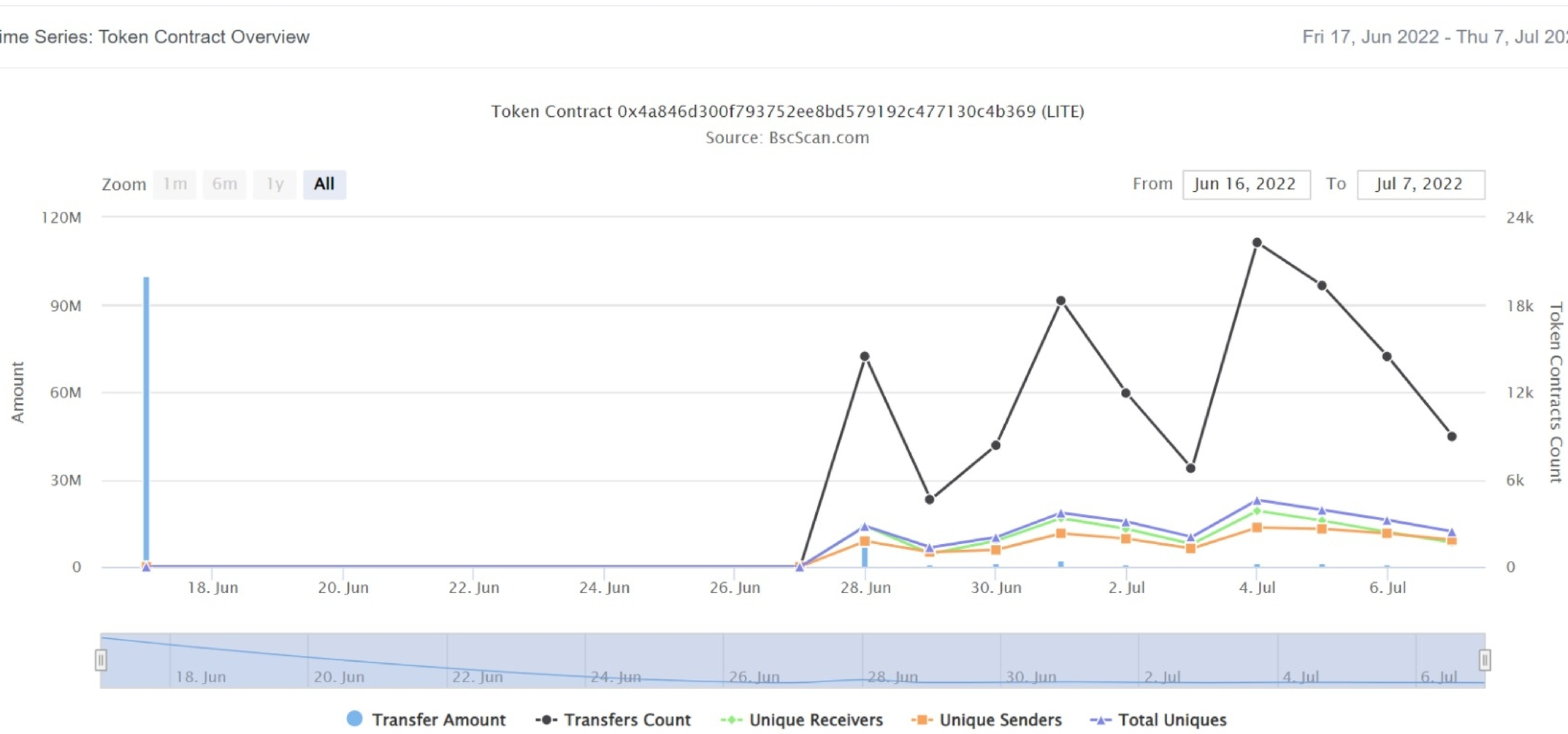
Token Total Supply: 100,000,000.00 Token | Total Token Holders: 7,016

LITE Token Top 20 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0xe04df9c24ee357cfe52b45a1b4d0f519bde9317d	97,000,000	97.0000%
2	0x3d92c2598dac9c29c7fe2bc8f75a8fefffe87e27	800,000	0.8000%
3	0x7a5e0f7e14131bb461c3d9c3486b8b097bf34ba5	600,000	0.6000%
4	0xd5f09dc8f83cc8eaa3f6157df1e8da7a00e29e06	400,000	0.4000%
5	0x751fda519beacee6d6a07acfb3bcebace22c07f8	100,000	0.1000%
6	0x088c46b98fc06c96469670059ac1bf453b4f886b	94,852.148949457166928724	0.0949%
7	PancakeSwap V2: LITE-BSC-USD	76,538.817099489195371123	0.0765%
8	0x6ee8bef1adcc3a35e7b20d6e1968b1144f478f0b	74,278.31359820164235243	0.0743%
9	0x684e265e1d06f1218d1a97521acbe622f4d1e225	50,345.840985218263707135	0.0503%
10	0x137303f7ffeb105275965dfe5bcda9af6dbd84a1	16,000.899586486612005035	0.0160%
11	0xd320ab055419a5c2445ab3572aff947ba2e49eb5	9,116.841104538044338865	0.0091%
12	0xd1d6a42072066eeb0de23a19357dedf7858db186	9,052.559559641676387042	0.0091%
13	0xf2b0f87c188a5814c1d0f51809fdb1ef622256cc	8,417.564564254463077774	0.0084%
14	0x8b61ed6d2dca5adc8365e92abac6367eea2cec3a	8,218.769798496796192044	0.0082%
15	0xdbdf287cd9547e7ca03509ce1db159a06ee593b2	8,000.006015	0.0080%
16	0xc336fce58f75eef3e2ca130ee79851cd1a8da5de	7,836.743693612323333881	0.0078%
17	0x793b1c42a52d6643b74856365b7f8b9f0cc294e9	7,498.844654244048988584	0.0075%
18	0x4cce3715d2647836af200876d97f700f7942249b	7,449.247220010801462169	0.0074%
19	0x151665c1de4ee74cfa304218cb02b14331e6c940	7,435.067017448423661881	0.0074%
20	0xf06075609487e3177266d144ac52fef4581255b9	7,000	0.0070%

LITE Token Distribution

LITE Token Contract Overview



Contract functions details

+ ERC20
    - < constructor>
    -[Ext] transfer #
    -[Ext] approve #
    -[Ext] transferFrom #
    -[Ext] increaseAllowance #
    -[Ext] decreaseAllowance #
    -[Int] _transfer #
    -[Int] _mint #
    -[Int] _approve #
    -[Int] _beforeTokenTransfer #
    -[Int] _afterTokenTransfer #

($) = payable function
= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	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	Passed

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

No low severity issue found.

Conclusion

Smart contract contains no any 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.