

SECURITY AUDIT

Meta Shiba

November, 2021

Website: soken.io



Table of Contents

Table of Contents	2
Disclaimer	3
Procedure	4
Terminology	5
Limitations	5
Token Contract Details for 10.11.2021	6
Audit Details	6
Social Profiles	7
MESHI Token Distribution	8
Vulnerabilities checking	9
Security Issues	10
Conclusion	11
Soken Contact Info	12



Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

DISCLAIMER: You agree to the terms of this disclaimer by reading this report or any portion thereof. Please stop reading this report and remove and delete any copies of this report that you download and/or print if you do not agree to these conditions. This report is for non-reliability information only and does not represent investment advice. No one shall be entitled to depend on the report or its contents, and Soken and its affiliates shall not be held responsible to you or anyone else, nor shall Soken provide any guarantee or representation to any person with regard to the accuracy or integrity of the report. Without any terms, warranties or other conditions other than as set forth in that exclusion and Soken excludes hereby all representations, warrants, conditions and other terms (including, without limitation, guarantees implied by the law of satisfactory quality, fitness for purposes and the use of reasonable care and skills). The report is provided as "as is" and does not contain any terms and conditions. Except as legally banned, Soken disclaims all responsibility and responsibilities and no claim against Soken is made to any amount or type of loss or damages (without limitation, direct, indirect, special, punitive, consequential or pure economic loses or losses) that may be caused by you or any other person, or any damages or damages, including without limitations (whether innocent or negligent).

Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.



Procedure

Our analysis contains following steps:

- 1. Project Analysis;
- 2. Manual analysis of smart contracts:
- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- · Hashes of all transaction will be recorded
- · Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph



Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue less important, must be analyzed
- Medium-severity issue important, needs to be analyzed and fixed
- High-severity issue —important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue —serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.



Token Contract Details for 10.11.2021

Contract Name: MetaShiba

Deployed address: 0xe1b0c129d63f6efdecaa2cb1968f5a1fb61f0f30

Total Supply: **10,000,000,000,000,000**

Token Ticker: MESHI

Decimals: 9

Token holders: 1,825

Transactions count: 4,158

Top 100 holders dominance: 92.67%

Audit Details



Project Name: Meta Shiba

Language: Solidity

Compiler version: v.0.6.12

Blockchain: BSC



Social Profiles

Project Website: https://www.metashibainu.org/

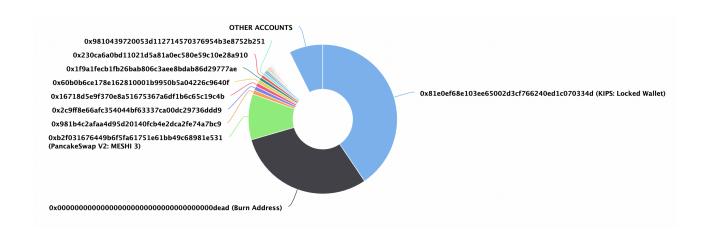
Project Twitter: https://twitter.com/flokilokitoken

Project Announcement Telegram: https://t.me/MetaShiba_Channel

Project Telegram Chat: https://t.me/MetaShiba_Chat



MESHI Token Distribution



MESHI Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1		4,053,974,674,749,510.427162116	40.5397%
2	Burn Address	3,000,112,760,422,290.137544682	30.0011%
3	∄ PancakeSwap V2: MESHI 3	994,193,548,068,974.245384009	9.9419%
4	0x981b4c2afaa4d95d20140fcb4e2dca2fe74a7bc9	90,835,600,983,962.71523199	0.9084%
5	0x2c9ff8e66afc354044bf63337ca00dc29736ddd9	86,245,183,695,291.303706588	0.8625%
6	0x16718d5e9f370e8a51675367a6df1b6c65c19c4b	81,215,999,072,055.812794483	0.8122%
7	0x60b0b6ce178e162810001b9950b5a04226c9640f	73,379,707,210,086.294677324	0.7338%
8	0x1f9a1fecb1fb26bab806c3aee8bdab86d29777ae	63,780,381,242,783.821363549	0.6378%
9	0x230ca6a0bd11021d5a81a0ec580e59c10e28a910	62,352,584,945,114.250946469	0.6235%
10	0x9810439720053d112714570376954b3e8752b251	56,110,764,090,587.431408215	0.5611%



Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed



Security Issues

1) Volatile Code:

The return values of functions <u>swapExactTokensForETHSupportingFeeOnTransferTokens</u> and <u>addLiquidityETH</u> are not properly handled.

2) Out of Gas issue:

The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded.length - 1];
            _towned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
        break;
    }
}</pre>
```

3) Out of Gas issue:

The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns(uint256, uint256) {
   uint256 rSupply = _rTotal;
   uint256 tSupply = _tTotal;
   for (uint256 i = 0; i < _excluded.length; i++) {
      if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
      rSupply = rSupply.sub(_rOwned[_excluded[i]]);
      tSupply = tSupply.sub(_tOwned[_excluded[i]]);
   }
   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
   return (rSupply, tSupply);
}</pre>
```



Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.





Soken Contact Info

Website: www.soken.io

Mob: (+1)416-875-4174

32 Britain Street, Toronto, Ontario, Canada

Telegram: @team_soken

GitHub: sokenteam

Twitter: @soken_team

