



SMART CONTRACT SECURITY AUDIT

Floki Elon

October, 2021

Website: soken.io

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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.

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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 21.10.2021

Contract Name: **CoinToken**

Deployed address: **0xc4a54699d24C5C130cf866974181E41e22bb3b07**

Total Supply: **100,000,000,000,000,000**

Token Tracker: **FlokiElon**

Decimals: **9**

Token holders: **4,002**

Transactions count: **13,689**

Top 100 holders dominance: **94.81%**

Audit Details



Project Name: **Floki Elon**

Language: **Solidity**

Compiler version: **v.0.6.12**

Blockchain: **BSC**

Social Profiles

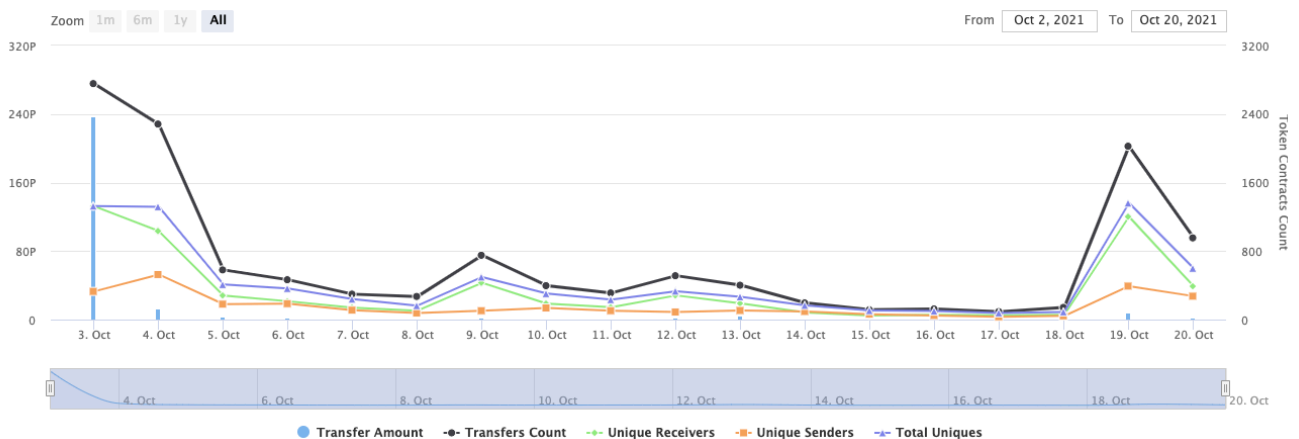
Project Website: <https://www.flokielon.net/>

Project Twitter: **FlokiReal**

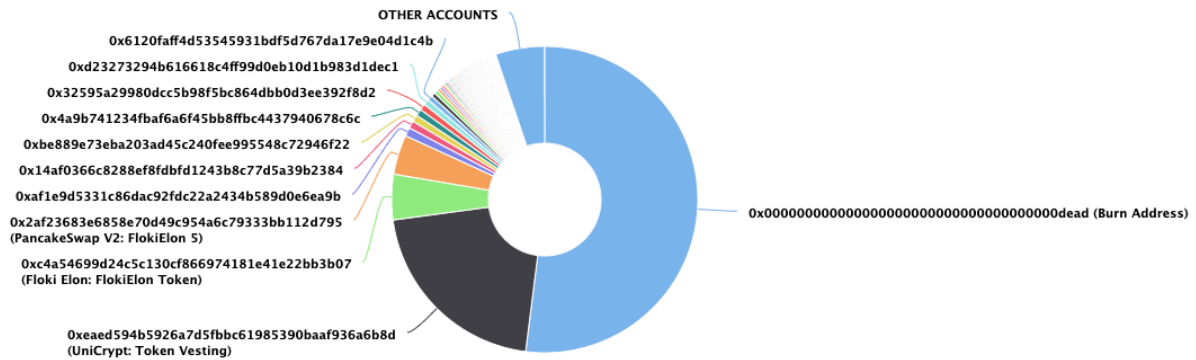
Project Announcement Telegram: **floki_real**

Project Community Telegram: **Floki_Real**




Token Contract Overview



FlokiElon Token Distribution



FlokiElon Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	51,994,317,092,666,500.533014742	51.9943%
2	 UniCrypt: Token Vesting	20,883,276,751,387,300.07714224	20.8833%
3	 Fioki Elon: FiokiElon Token	4,783,180,943,905,170.432438706	4.7832%
4	 PancakeSwap V2: FiokiElon 5	4,187,602,507,459,340.230194414	4.1876%
5	0xaf1e9d5331c86dac921dc22a2434b589d0e6ea9b	908,477,512,710,022.373059033	0.9085%
6	0x14af0366c8288ef8fdbf1243b8c77d5a39b2384	772,507,631,718,692.721630732	0.7725%
7	0xbe889e73eba203ad45c240fee995548c72946f22	733,534,730,912,517.555847567	0.7335%
8	0x4a9b741234fbaf6a6f45bb8fbc4437940678c6c	717,781,232,089,232.099006123	0.7178%
9	0x32595a29980dcc5b98f5bc864dbb0d3ee392f8d2	676,696,163,961,649.544717959	0.6767%
10	0xd3273294b616618c4ff99d0eb10d1b983d1dec1	618,261,941,730,045.838371681	0.6183%

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	Low-issues
Outdated Compiler 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) Owner privileges:

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behavior (for example, disable selling or mint new tokens).

2) Out of Gas issue:

The function `includeInRewards()` 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[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

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);
}
```

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.

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