



SMART CONTRACT SECURITY AUDIT

Doge Raca

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Website: soken.io

Table of Contents

Table of Contents	2
Disclaimer	3
Procedure	4
Terminology	5
Limitations	5
Token Contract Details for 30.11.2021	6
Audit Details	6
Social Profiles	7
Token Contract Overview	7
DoCa 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.

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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 30.11.2021

Contract Name: **DogeRaca**

Deployed address: **0xB547607EAE3B10d94B211DA84A3B51BFa545774d**

Total Supply: **1,000,000,000,000**

Token Tracker: **DoCa**

Decimals: **9**

Token holders: **121,505**

Transactions count: **461,188**

Top 100 holders dominance: **99.26%**

Audit Details



Project Name: **Doge Raca**

Language: **Solidity**

Compiler version: **v0.6.12**

Blockchain: **BSC**

Social Profiles

Project Website: <https://dogeraca.com/>

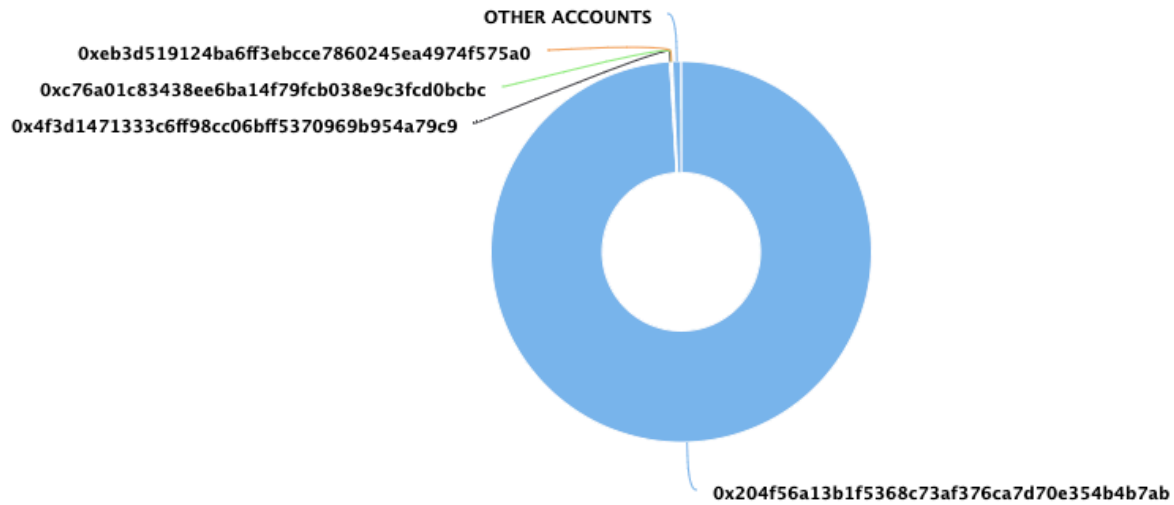
Project Twitter: <https://twitter.com/dogeraca>

Project Announcement Telegram: <https://dogeraca.com/>

Token Contract Overview



DoCa Token Distribution



DoCa Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1	0x204f56a13b1f5368c73af376ca7d70e354b4b7ab	990,340,694,218.223058423	99.0341%
2	0x4f3d1471333c6ff98cc06bff5370969b954a79c9	929,369,474.571854859	0.0929%
3	0xc76a01c83438ee6ba14f79fcb038e9c3fcd0bcbcb	437,024,610.983912424	0.0437%
4	0xeb3d519124ba6ff3ebc7860245ea4974f575a0	120,302,944.594062312	0.0120%
5	0x903a3a4230c627e13c94fc3e1ec8938773c6e278	48,976,946.376240873	0.0049%
6	0xad3870a77bee469cb1b4548359de01f06b29bef2	36,627,471.336414383	0.0037%
7	0xc9574d82e3f41eb3437c31a94a6b83d68eb3374c	29,404,073.651792601	0.0029%
8	0x208bd7004fc6a008c962487ab3065d75729c35fa	27,554,488.415611517	0.0028%
9	0x1808825c8653e7fbf9a211faf4713550a98b07f5	26,693,957.184027592	0.0027%
10	0x3ea1b03c3ba6f6f0d4890bfad52ef3147d9b4700	21,997,641.95148146	0.0022%

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) Volatile Code:

The return values of functions [swapExactTokensForETHSupportingFeeOnTransferTokens](#) and [addLiquidityETH](#) 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[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

4) 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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