



SMART CONTRACT SECURITY AUDIT

PokerMania

November, 2021

Website: soken.io

Table of Contents

Table of Contents	2
Disclaimer	3
Procedure	4
Terminology	5
Limitations	5
Token Contract Details for 21.11.2021	6
Audit Details	6
Social Profiles	7
Token Contract Overview	7
PM3 Token Distribution	8
Vulnerabilities checking	9
Security Issues	10
Conclusion	12
Soken Contact Info	13

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 21.11.2021

Contract Name: **PokerMania**

Deployed address: **0x3380e3ca9DA8822ed68efE80D5e7CE06A3Ddd61D**

Total Supply: **50,000,000**

Token Tracker: **PM3**

Decimals: **9**

Token holders: **204**

Transactions count: **1,423**

Top 100 holders dominance: **99.80%**

Audit Details



Project Name: **PokerMania**

Language: **Solidity**

Compiler version: **v.0.8.4**

Blockchain: **BSC**

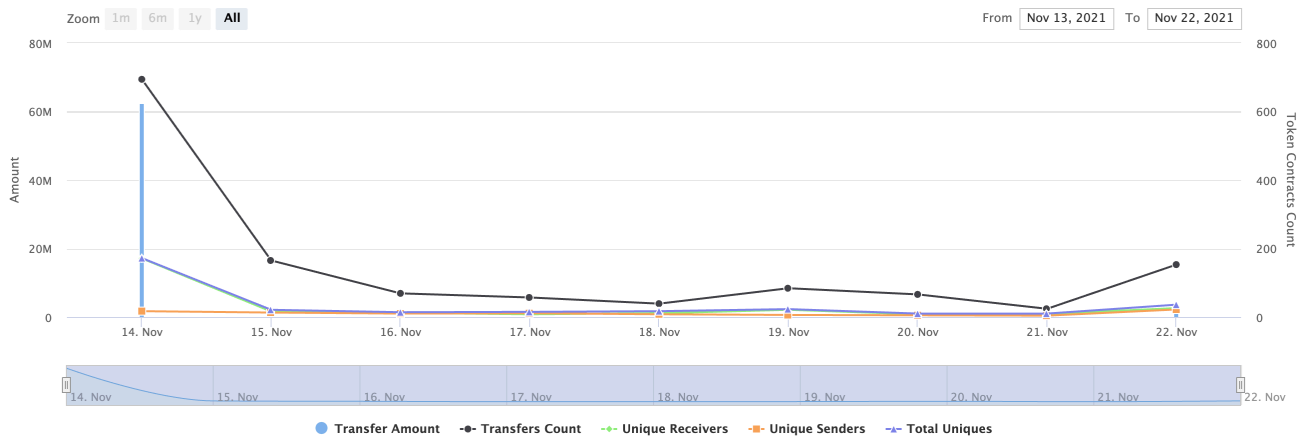
Social Profiles

Project Website: <http://pokermaniatoken.com/>

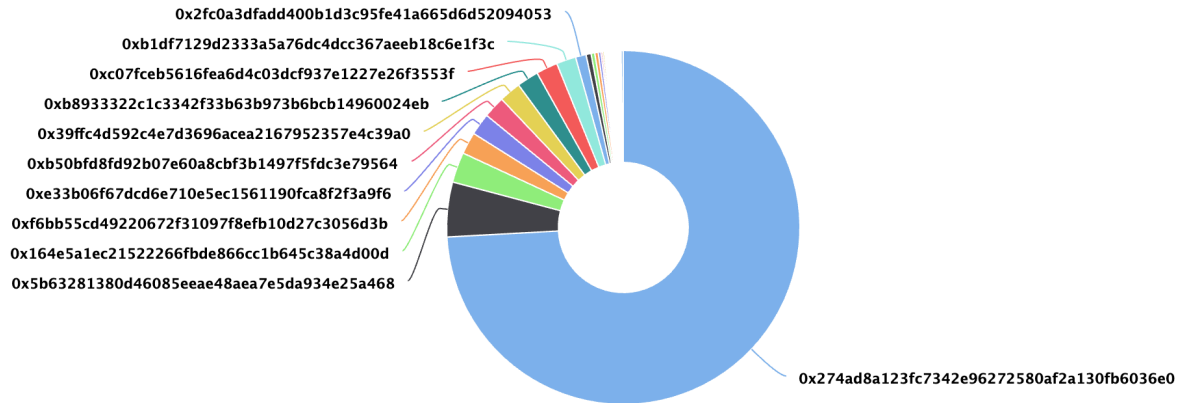
Project Twitter: https://twitter.com/Poker_Mania1

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

Token Contract Overview



PM3 Token Distribution



PM3 Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1	0x274ad8a123fc7342e96272580af2a130fb6036e0	37,071,361.731576578	74.1427%
2	0x5b63281380d46085eeae48aea7e5da934e25a468	2,500,408.85779411	5.0008%
3	0x164e5a1ec2152266fbde866cc1b645c38a4d00d	1,388,609.056276601	2.7772%
4	0xf6bb55cd49220672f31097f8efb10d27c3056d3b	1,000,407.364730526	2.0008%
5	0xe33b06f67dcd6e710e5ec1561190fca8f2f3a9f6	1,000,003.315108099	2.0000%
6	0xb50bfd8fd92b07e60a8cbf3b1497f5fdc3e79564	1,000,000	2.0000%
7	0x39ffc4d592c4e7d3696acea2167952357e4c39a0	993,158.331161697	1.9863%
8	0xb8933322c1c3342f33b63b973b6bcb14960024eb	993,014.140767057	1.9860%
9	0xc07fceb5616fea6d4c03dcf937e1227e26f3553f	986,134.301239593	1.9723%
10	0xb1df7129d2333a5a76dc4dcc367aeeb18c6e1f3c	895,216.999239415	1.7904%

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 `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;
        }
    }
}
```

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.

4) Volatile Code:

```
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);
}
```

The return values of functions *swapExactTokensForETHSupportingFeeOnTransferTokens* and *addLiquidityETH* are not properly handled.

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

