



**TechRate**  
AUDIT COMPANY

# Smart Contract Security Audit

# Audit Details



Audited project

**SHAMAN KING INU**



Deployer address

**0x096f901543f256b990fa40e54e80a9fe0812e8c1**



Client contacts:

**SHAMAN KING INU team**



Blockchain

**Ethereum**



Project website:

**<https://www.shamankinginu.io/>**

# 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.

# Background

TechRate was commissioned by SHAMAN KING INU to perform an audit of smart contracts:

<https://etherscan.io/address/0xf98e38c3f287304a1f2d4879e741d2bf55474e84#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to 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.

# Contracts Details

## Token contract details for 07.12.2021

Contract name	SHAMAN KING INU
Contract address	0xF98E38C3F287304a1F2d4879E741d2BF55474e84
Total supply	1,000,000,000,000,000,000
Token ticker	SHAMAN
Decimals	9
Token holders	2,815
Transactions count	7,296
Top 100 holders dominance	62.76%
Contract deployer address	0x096f901543f256b990fa40e54e80a9fe0812e8c1
Contract's current owner address	0x00

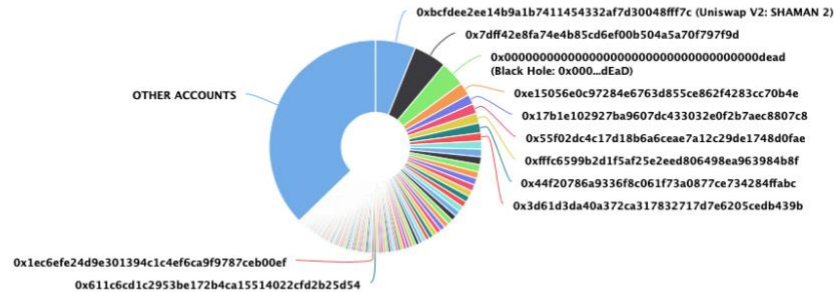
# SHAMAN KING INU Token Distribution

The top 100 holders collectively own 62.76%  
(627,562,449,527,654,000.00 Tokens) of SHAMAN KING INU

Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 2,815

## SHAMAN KING INU Top 100 Token Holders

Source: Etherscan.io



(A total of 627,562,449,527,654,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000.00 token)

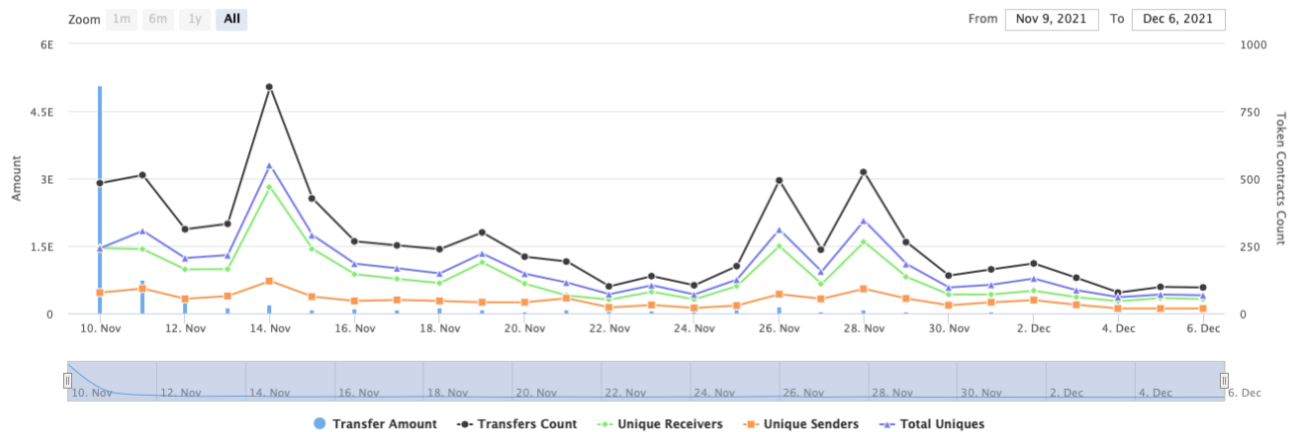
# SHAMAN KING INU Contract Interaction Details

Time Series: Token Contract Overview

Wed 10, Nov 2021 - Mon 6, Dec 2021


Token Contract 0xf98e38c3f287304a1f2d4879e741d2bf55474e84 (SHAMAN KING INU)

Source: Etherscan.io





# SHAMAN KING INU Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	 Uniswap V2: SHAMAN 2	61,349,315,115,834,800.079657463	6.1349%
2	0x7dff42e8fa74e4b85cd6ef00b504a5a70f797f9d	50,042,866,845,793,400.007986793	5.0043%
3	Black Hole: 0x000...dEaD	37,836,040,794,327,600.6387322	3.7836%
4	0xe15056e0c97284e6763d855ce862f4283cc70b4e	20,005,179,567,949,500.316769558	2.0005%
5	0x17b1e102927ba9607dc433032e0f2b7aec8807c8	15,099,861,722,898,400.406948052	1.5100%
6	0x55f02dc4c17d18b6a6ceae7a12c29de1748d0fae	15,004,519,277,233,100.696179998	1.5005%
7	0xfffc6599b2d1f5af25e2eed806498ea963984b8f	15,001,239,226,919,200.868640822	1.5001%
8	0x44f20786a9336f8c061f73a0877ce734284ffabc	14,891,411,700,353,500.296468324	1.4891%
9	0x3d61d3da40a372ca317832717d7e6205cedb439b	12,513,515,567,079,400.749901745	1.2514%
10	0xd1924d4278c21d7104c73fcd55ad7059d3df301	12,068,877,751,067,300.539930167	1.2069%



# Contract functions details

- + Context
  - [Int] \_msgSender
- + [Int] IERC20
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #
- + [Lib] SafeMath
  - [Int] add
  - [Int] sub
  - [Int] sub
  - [Int] mul
  - [Int] div
  - [Int] div
- + Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
- + [Int] IUniswapV2Factory
  - [Ext] createPair #
- + [Int] IUniswapV2Router02
  - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
  - [Ext] factory
  - [Ext] WETH
  - [Ext] addLiquidityETH (\$)
- + SHAMAN (Context, IERC20, Ownable)
  - [Pub] <Constructor> #
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply
  - [Pub] balanceOf
  - [Pub] transfer #
  - [Pub] allowance
  - [Pub] approve #
  - [Pub] transferFrom #
  - [Ext] setCooldownEnabled #
    - modifiers: onlyOwner
  - [Prv] tokenFromReflection
  - [Prv] \_approve #
  - [Ext] setFeeAmountOne #
  - [Ext] setFeeAmountTwo #



- [Prv] \_transfer #
- [Prv] swapTokensForEth #
  - modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Ext] openTrading #
  - modifiers: onlyOwner
- [Pub] setBots #
  - modifiers: onlyOwner
- [Pub] delBot #
  - modifiers: onlyOwner
- [Prv] \_tokenTransfer #
- [Prv] \_transferStandard #
- [Prv] \_isBuy
- [Prv] \_takeTeam #
- [Prv] \_reflectFee #
- [Ext] <Fallback> (\$)
- [Ext] manualswap #
- [Ext] manualsend #
- [Prv] \_getValues
- [Prv] \_getTValues
- [Prv] \_getRValues
- [Prv] \_getRate
- [Prv] \_getCurrentSupply

(\$)= payable function

# = non-constant function

# Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Low issue
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

# Security Issues

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

### 1. Out of gas

Issue:

- The function `setBots()` uses the loop to add bots to list.

```
function setBots(address[] memory bots_) public onlyOwner {
    for (uint i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}
```

Recommendation:

Check that the bots array length is not too big.

## Owner privileges (In the period when the owner is not renounced)

- Owner can enable / disable cooldown (user to user trading with time offset).

```
function setCooldownEnabled(bool onoff) external onlyOwner() {
    cooldownEnabled = onoff;
}
```

- Owner can open swap trading.

```
function openTrading() external onlyOwner() {
    require(!tradingOpen, "trading is already open");
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D);
    uniswapV2Router = _uniswapV2Router;
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this), _uniswapV2Router.WETH());
    uniswapV2Router.addLiquidityETH({value: address(this).balance}(address(this), balanceOf(address(this))), 0, 0, owner(), block.timestamp);
    swapEnabled = true;
    cooldownEnabled = true;
    _maxTxAmount = 5000000000000000 * 10**9;
    tradingOpen = true;
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
}
```

- Owner can add and remove bots (no transferring between this addresses).

```
function setBots(address[] memory bots_) public onlyOwner {
    for (uint i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}

function delBot(address notbot) public onlyOwner {
    bots[notbot] = false;
}
```

- Fee address wallet 1 can manual swap and send.

```
function manualswap() external {
    require(_msgSender() == _feeAddrWallet1);
    uint256 contractBalance = balanceOf(address(this));
    swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(_msgSender() == _feeAddrWallet1);
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

# Conclusion

Smart contracts contain low severity issues and owner privileges!  
Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

<https://app.unicrypt.network/amm/uni-v2/pair/0xbcfdee2ee14b9a1b7411454332af7d30048fff7c>

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## *TechRate 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.*