# Smart Contract Security Audit V1

# **SmartNetCoin**

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### Background

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.

### **Project Information**

- Website: <a href="https://www.smartnetcoin.com/">https://www.smartnetcoin.com/</a>
- Telegram group: <a href="https://t.me/SmartNetCoinChat">https://t.me/SmartNetCoinChat</a>
- Twitter: <a href="https://twitter.com/SmartNetCoin">https://twitter.com/SmartNetCoin</a>
- WhitePaper: http://www.smartnetcoin.com/wp-content/uploads/2021/11/SmartNetCoin.pdf
- **Reddit**: https://www.reddit.com/user/shadowmrgn
- **Reddit:** https://discord.gg/2XGnM3b3
- Platform: Binance Smart Chain
- Contract Address: 0x9018b43A3021bCA55E269e6C396387B2E4b17A21

### **Token Information**

• Name: SNTCoin

• Total Supply: 1,000,000,000,000

Holders: 1 address

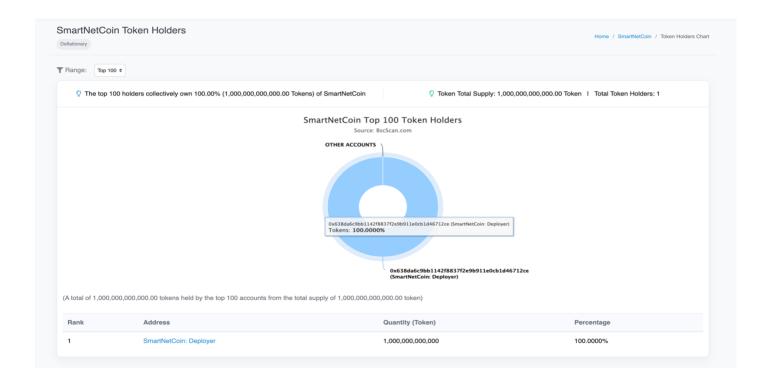
• Total transactions: 1

Contracts address deployed to test net (BSC)

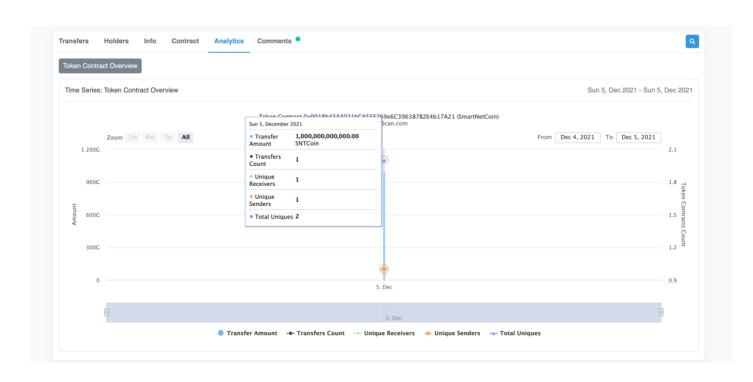
SmartNetCoin contract on testnet.bsc (BSC Test Net)

https://testnet.bscscan.com/address/0xe4675b4cca9d95dd5ce230f6e2288bc4fd6c2593

### SmartNetCoin Distribution



### **Contract Interaction Details**



### **Executive Summary**

According to our assessment, the customer's solidity smart contract is **Secured**.



Automated checks are with remix IDE. All issues were performed by the team, which included the analysis of code functionality, manual audit found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the audit overview section. The general overview is presented in the Project Information section and all issues found are located in the audit overview section.

Team found 0 critical, 0 high, 0 medium, 3 low, 0 very low-level issues and 2 note in all solidity files of the contract

The files:

SmartNetCoin.sol

## File and Function Level Report

### File in Scope:

Contract Name	SHA 256 hash	Contract Address
SmartNetCoin.sol	388a87bfe94a7e1352548dfe 6ffc81aee176c33ceee80d59 7c5c8b14ac936026	0x9018b43A3021bCA55E269e6C396387B2E4 b17A

• Contract: SmartNetCoin

• Inherit: Context, IERC20, Ownable

• Observation: All passed including security check

• Test Report: passed

• Score: passed

• Conclusion: passed

Function	Test Result	Type / Return Type	Score
name	<b>~</b>	Read / public	Passed
symbol	<b>~</b>	Read / public	Passed
decimals	<b>~</b>	Read / public	Passed
totalSupply	<b>~</b>	Read / public	Passed
allowance	<b>~</b>	Read / public	Passed
balanceOf	<b>~</b>	Read / public	Passed
Owner	<b>~</b>	Read / public	Passed
uniswapV2Pair	<b>~</b>	Read / public	Passed
swapAndLiquifyEnabled	<b>~</b>	Read / public	Passed
uniswapV2Router	<b>~</b>	Read / public	Passed
reflectionFromToken	<b>~</b>	Read / public	Passed
isExcludedFromReward	<b>~</b>	Read / public	Passed

tokenFromReflection	<b>~</b>	Read / public	Passed
_maxTxAmount	<b>~</b>	Read / private	Passed
_taxFee	<b>~</b>	Read / private	Passed
isExcludedFromFees	<b>~</b>	Read / public	Passed
_liquidityFee	<b>~</b>	Read / private	Passed
_marketingFee	<b>~</b>	Read / private	Passed
totalFees	<b>~</b>	Read / public	Passed
approve	<b>~</b>	Write / public	Passed
transferFrom	<b>~</b>	Write / public	Passed
transfer	<b>~</b>	Write / public	Passed
deliver	<b>~</b>	Write / public	Passed
excludeFromFees	<b>~</b>	Write / public	Passed
excludeFromReward	<b>~</b>	Write / public	Passed
includeInFee	<b>~</b>	Write / public	Passed
renounceOwnership	<b>*</b>	Write / public	Passed
transferOwnership	<b>&gt;</b>	Write / public	Passed
includeInReward	<b>~</b>	Write / public	Passed
setLiquiditFeePercent	<b>~</b>	Write / public	Passed
decreaseAllowance	<b>~</b>	Write / public	Passed
setTaxFeePercent	<b>~</b>	Write / public	Passed
setMaxAmount	<b>~</b>	Write / public	Passed
setMaxTxAmount	<b>~</b>	Write / public	Passed
setSwapAndLiquifyEnabl ed	<b>~</b>	Write / public	Passed
increaseAllowance	<b>~</b>	Write / public	Passed

# **Issues Checking Status**

No.	Issue Description	Checking Status
1	Compiler warnings.	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.	
8	DoS with Revert. Passed	
9	DoS with block gas limit. Passed	
10	Methods execution permissions. Passed	
11	Economy model. If application logic is based on an incorrect economic model, the application would not function correctly and participants would incur financial losses.  This type of issue is most often found in bonus rewards systems, Staking and Farming contracts, Vault and Vesting contracts, etc.	
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	B Design Logic. Passed	

# Severity Definitions

Risk Level	Description	
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc.	
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions	
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose	
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution	
Note	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.	

### **Audit Findings**

#### **Critical:**

No critical severity vulnerabilities were found.

### High:

No High severity vulnerabilities were found

#### **Medium:**

No Medium severity vulnerabilities were found.

#### Low:

# **#Use of block.timestamp for comparisons Description**

The value of block.timestamp can be manipulated by the miner. And conditions with strict equality is difficult to achieve - block.timestamp

Remediation Avoid use of block.timestamp

Status: Acknowledged

# **#Owner privileges (In the period when the owner isn't renounced) Description**

Owner can change tax, burn, market, development and liquidity fees.

Owner can enable the trading.

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}
function includeInFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = false;
}
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    _taxFee = taxFee;
}
function setDevelopmentFeePercent(uint256 developmentFee) external onlyOwner()
{
    _developmentFee = developmentFee;
}
function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {
    _liquidityFee = liquidityFee;
```

### Remediation

Make these functions internal in next version or the team should announce the investors before change the fees and give them time if they want to use the old fees.

Status: Acknowledged

### **#Pragam version not fixed**

### **Description**

It is a good practice to lock the solidity version for a live deployment (use 0.8.4 instead of ^0.8.4). contracts should be deployed with the same compiler version and flags that they have been tested the most with. Locking the pragma helps ensure that contracts do not accidentally get deployed using, for example, the latest compiler which may have higher risks of undiscovered bugs. Contracts may also be deployed by others and the pragma indicates the compiler version intended by the original authors.

### Remediation

Remove the ^ sign to lock the pragma version

Status: Closed. It is deployed in the same version of the compiler

### **Very Low:**

No Very Low severity vulnerabilities were found.

**Notes:** 

### **#Naming Conventions**

### **Description**

The contract follows a consistent naming convention where we are private variables with leading"\_" and public variables without it. But we have missed to comply to the condition for certain variable names " maxTxAmount" which is public

#### Remediation

Remove "\_" from external variable names and add it to private variable names Status: Acknowledged

# **# Constant calculations in the contract Description**

recalculated initialization will save 2847 units of gas in deployment

```
uint256 public _maxTxAmount = 1000000000000 * 10**18;
    uint256 private numTokensSellToAddToLiquidity = 1000000000 * 10**18;
```

### Recommendation

Replace the initialization as

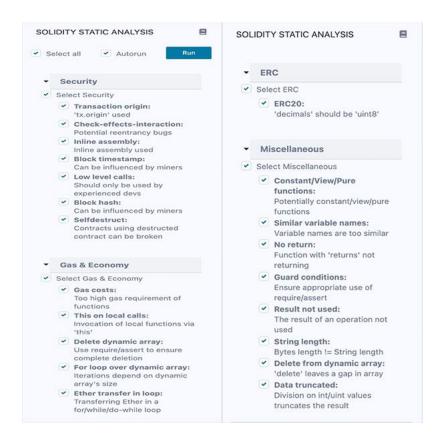
Status: Acknowledged

## **Automatic Testing**

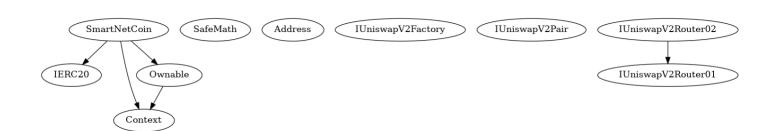
1- Check for security



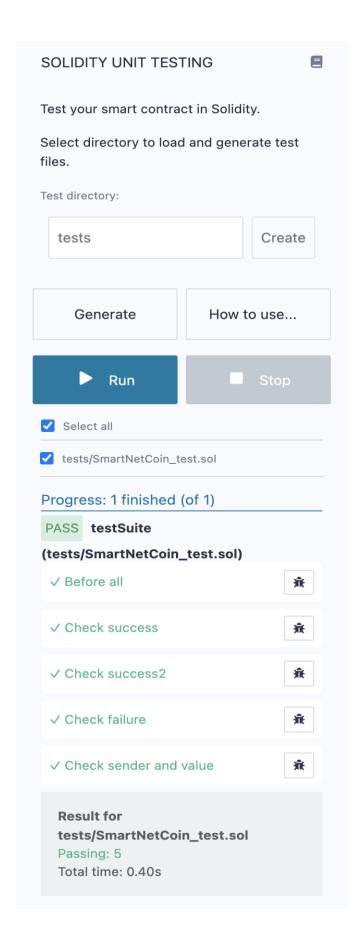
### 2- SOLIDITY STATIC ANALYSIS



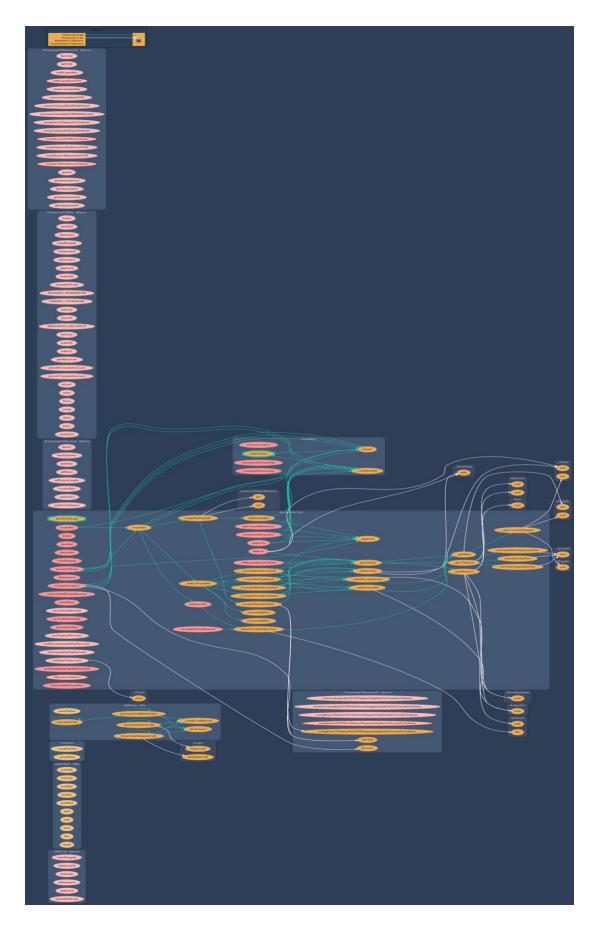
### 3- Inheritance graph



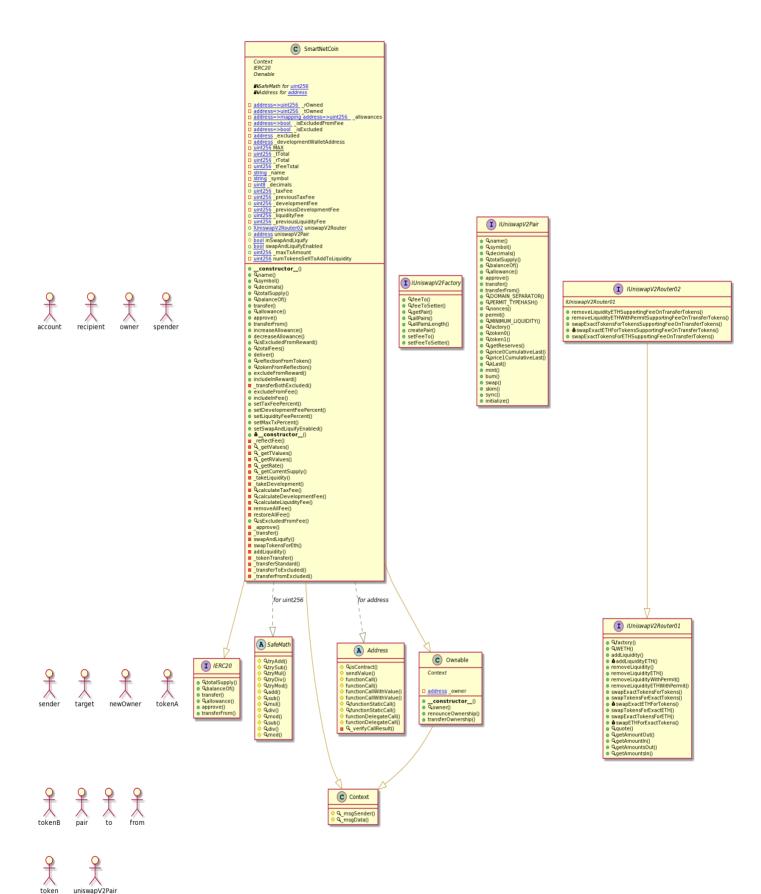
### 4- SOLIDITY UNIT TESTING



# 5- Call graph



### Unified Modeling Language (UML)



### Functions signature

```
11902160 => getTValues(uint256)
16279055 = \overline{isContract(address)}
39509351 => increaseAllowance(address, uint256)
75128141 => calculateTaxFee (uint256)
18160ddd => totalSupply()
70a08231 => balanceOf(address)
a9059cbb => transfer(address, uint256)
dd62ed3e => allowance(address, address)
095ea7b3 => approve(address, uint256)
23b872dd => transferFrom(address,address,uint256)
884557bf => tryAdd(uint256,uint256)
a29962b1 \Rightarrow trySub(uint256,uint256)
6281efa4 => tryMul(uint256,uint256)
736ecb18 => tryDiv(uint256,uint256)
38dc0867 => tryMod(uint256, uint256)
771602f7 => add(uint256, uint256)
b67d77c5 => sub(uint256, uint256)
c8a4ac9c => mul(uint256,uint256)
a391c15b => div(uint256, uint256)
f43f523a \Rightarrow mod(uint256, uint256)
e31bdc0a => sub(uint256, uint256, string)
b745d336 => div(uint256, uint256, string)
71af23e8 => mod(uint256, uint256, string)
119df25f => _msgSender()
8b49d47e => _msgData()
24a084df => sendValue(address,uint256)
a0b5ffb0 => functionCall(address,bytes)
241b5886 => functionCall(address, bytes, string)
2a011594 => functionCallWithValue(address,bytes,uint256)
d525ab8a => functionCallWithValue(address, bytes, uint256, string)
c21d36f3 => functionStaticCall(address,bytes)
dbc40fb9 => functionStaticCall(address, bytes, string)
ee33b7e2 => functionDelegateCall(address,bytes)
57387df0 => functionDelegateCall(address,bytes,string)
18c2c6a2 => verifyCallResult(bool,bytes,string)
8da5cb5b => owner()
715018a6 => renounceOwnership()
f2fde38b => transferOwnership(address)
017e7e58 => feeTo()
094b7415 => feeToSetter()
e6a43905 => getPair(address,address)
1e3dd18b => allPairs(uint256)
574f2ba3 => allPairsLength()
c9c65396 => createPair(address,address)
f46901ed => setFeeTo(address)
a2e74af6 => setFeeToSetter(address)
06fdde03 => name()
95d89b41 => symbol()
313ce567 => decimals()
3644e515 => DOMAIN_SEPARATOR()
30adf81f => PERMIT TYPEHASH()
7ecebe00 => nonces(address)
d505accf => permit(address,address,uint256,uint256,uint8,bytes32,bytes32)
ba9a7a56 => MINIMUM LIQUIDITY()
c45a0155 \Rightarrow factory()
0dfe1681 => token0()
```

```
d21220a7 => token1()
0902flac => getReserves()
5909c0d5 => price0CumulativeLast()
5a3d5493 => price1CumulativeLast()
7464fc3d => kLast()
6a627842 \Rightarrow mint(address)
89afcb44 => burn(address)
022c0d9f => swap(uint256, uint256, address, bytes)
bc25cf77 => skim(address)
fff6cae9 => sync()
485cc955 => initialize(address,address)
ad5c4648 => WETH()
e8e33700 =>
addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256)
f305d719 => addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
baa2abde =>
removeLiquidity(address,address,uint256,uint256,uint256,address,uint256)
02751cec => removeLiquidityETH(address, uint256, uint256, uint256, address, uint256)
removeLiquidityWithPermit(address,address,uint256,uint256,uint256,address,uint256,b
ool, uint8, bytes32, bytes32)
ded9382a =>
removeLiquidityETHWithPermit(address,uint256,uint256,uint256,address,uint256,bool,u
int8, bytes32, bytes32)
38ed1739 => swapExactTokensForTokens(uint256, uint256, address[], address, uint256)
8803dbee => swapTokensForExactTokens(uint256, uint256, address[], address, uint256)
7ff36ab5 => swapExactETHForTokens(uint256,address[],address,uint256)
4a25d94a => swapTokensForExactETH(uint256, uint256, address[], address, uint256)
18cbafe5 => swapExactTokensForETH(uint256,uint256,address[],address,uint256)
fb3bdb41 => swapETHForExactTokens(uint256,address[],address,uint256)
ad615dec => quote(uint256, uint256, uint256)
054d50d4 => getAmountOut(uint256,uint256,uint256)
85f8c259 => getAmountIn(uint256, uint256, uint256)
d06ca61f => getAmountsOut(uint256,address[])
1f00ca74 => getAmountsIn(uint256,address[])
af2979eb =>
removeLiquidityETHSupportingFeeOnTransferTokens(address,uint256,uint256,uint256,add
ress, uint256)
5b0d5984 =>
removeLiquidityETHWithPermitSupportingFeeOnTransferTokens(address,uint256,uint256,u
int256, address, uint256, bool, uint8, bytes32, bytes32)
swapExactTokensForTokensSupportingFeeOnTransferTokens(uint256, uint256, address[], add
ress, uint256)
b6f9de95 =>
swapExactETHForTokensSupportingFeeOnTransferTokens(uint256,address[],address,uint25
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],addres
s,uint256)
a457c2d7 => decreaseAllowance(address, uint256)
88f82020 => isExcludedFromReward(address)
13114a9d => totalFees()
3bd5d173 \Rightarrow deliver(uint256)
4549b039 => reflectionFromToken(uint256,bool)
2d838119 => tokenFromReflection(uint256)
52390c02 => excludeFromReward(address)
3685d419 => includeInReward(address)
6ff6cdf4 => transferBothExcluded(address,address,uint256)
```

```
437823ec => excludeFromFee(address)
ea2f0b37 => includeInFee(address)
061c82d0 => setTaxFeePercent(uint256)
4680ff35 => setDevelopmentFeePercent(uint256)
8ee88c53 => setLiquidityFeePercent(uint256)
d543dbeb => setMaxTxPercent(uint256)
c49b9a80 => setSwapAndLiquifyEnabled(bool)
184d894e => _reflectFee(uint256,uint256)

d4780e36 => _getValues(uint256)

65c63d72 => _getRValues(uint256,uint256,uint256,uint256)

94e10784 => _getRate()
97a9d560 => _getCurrentSupply()
c432df5e => _takeLiquidity(uint256)
d0c4fdb6 => _takeDevelopment(uint256)
044cb047 => calculateDevelopmentFee(uint256)
cc126a23 => calculateLiquidityFee(uint256)
301370af => removeAllFee()
e7e3e3a7 => restoreAllFee()
5342acb4 => isExcludedFromFee(address)
104e81ff => _approve(address,address,uint256)
30e0789e => _transfer(address,address,uint256)
173865ad => swapAndLiquify(uint256)
b28805f4 => swapTokensForEth(uint256)
9cd441da => addLiquidity(uint256,uint256)
b09bbc79 => _tokenTransfer(address,address,uint256,bool)
2852df65 => _transferStandard(address,address,uint256)
16f1cc83 => _transferToExcluded(address,address,uint256)
c7d9be66 => _transferFromExcluded(address,address,uint256)
```

### Automatic general report

```
Files Description Table
| File Name | SHA-1 Hash |
|----|
| /Users/macbook/Desktop/smart contracts/SmartNetCoin.sol |
bc59f61a4ce051883d655cf02e932f94bb5a7d1d |
 Contracts Description Table
| Contract |
                                            Type | Bases
**Modifiers** |
| **IERC20** | Interface | ||| |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | |
                                                                  | NO
   L | approve | External | |
                                                                 |NO∭ |
| **SafeMath** | Library | |||
| L | tryAdd | Internal A | | |
| L | trySub | Internal
  L | tryMul | Internal A | L | tryDiv | Internal A |
| L | tryMul | Internal
| L | tryMod | Internal 🖺 |
   | L | mul | Internal 🖱 |
| L | div | Internal 🖺 |
| L | mod | Internal
| L | sub | Internal A |
| L | div | Internal
| L | mod | Internal 🖺 | | |
| **Context** | Implementation | |||
| L | msgSender | Internal 🖺 | | |
| L | _msgData | Internal 🖺 | | |
L | isContract | Internal 🖺 |
| L | sendValue | Internal A | O | |
| L | functionCall | Internal A | L | functionCall | Internal A | L | functionCall | Internal A | L | L | FunctionCall | Internal A | L | L | FunctionCall | Internal A | L | L | FunctionCall | Internal A | L | L | FunctionCall | Internal A | 
| L | functionCallWithValue | Internal
| L | functionCallWithValue | Internal A | D
| L | functionStaticCall | Internal A | L | functionStaticCall | Internal A |
| L | functionDelegateCall | Internal 🖺 |
| L | functionDelegateCall | Internal A |
    | verifyCallResult | Private | | | |
```

```
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | |  
 L | owner | Public | |
                       |NO|| |
 L | renounceOwnership | Public | | ●
                                    | onlyOwner |
| L | transferOwnership | Public | | OnlyOwner | | |
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | | NO | |
| L | feeToSetter | External | | | NO| |
 L | getPair | External | | NO | | L | allPairs | External | | NO | |
 | allPairsLength | External | | | NO | |
 **IUniswapV2Pair** | Interface | |||
 L | name | External | | | NO | |
 L | symbol | External | |
                         ∣NO∜
 L | decimals | External | |
                           |NO∦ |
 L | totalSupply | External | | | NO | |
 L | balanceOf | External | | | NO | | L | allowance | External | | | NO | |
 | NO
 L | transfer | External | | NO| |
 | transferFrom | External | | | | NO|
 L | DOMAIN SEPARATOR | External [ | NO[ |
 | PERMIT TYPEHASH | External | |
 L | nonces | External | | | NO | | L | permit | External | | | | NO | |
 L | MINIMUM LIQUIDITY | External | |
                                     | NO
 L | factory | External | | | NO | |
 L | token0 | External | | | | | | | | | |
 L | token1 | External | |
                           |NON |
 | getReserves | External | | | NO | |
 L | price0CumulativeLast | External ∦
                                        | NO|
 | price1CumulativeLast | External | |
 L | kLast | External | | NO | |
 L | mint | External | | | L | burn | External | | |
                           |NO
                           |NO|
 L | swap | External [ | ①
                           |NO|
 L | skim | External ∅ |
                           |NO|| |
 L | sync | External
                           |NO|
                     **IUniswapV2Router01** | Interface | |||
 L | factory | External | | | NO | |
 L | addLiquidity | External | | _ ● | NO| |
 L | addLiquidityETH | External | | I | NO | |
 removeLiquidity | External | | NO | |
 | removeLiquidityETH | External | |
                                       | NO| |
 removeLiquidityWithPermit | External | | ●
                                              |NON |
 | removeLiquidityETHWithPermit | External | | | | NO | |
 L | swapExactTokensForTokens | External | | L | swapTokensForExactTokens | External | |
                                             |NO|| |
```

```
L | swapTokensForExactETH | External | |
  L | swapETHForExactTokens | External | | III | NO | |
  L | quote | External | | NO | |
| L | getAmountOut | External | |
| L | getAmountIn | External | | | NO| |
  L | getAmountsOut | External | | | NO | |
| L | getAmountsIn | External | | | NO| |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | |
  | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | |
NO.
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | |
  L | swapExactETHForTokensSupportingFeeOnTransferTokens | External | | 🕮 | NO| |
  | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | | No! |
**SmartNetCoin** | Implementation | Context, IERC20, Ownable | | |
   Constructor> | Public | | NO |
   L | name | Public | | | NO |
  L | symbol | Public | |
   L | decimals | Public | | NO | |
  L | totalSupply | Public | | | NO | |
  L | balanceOf | Public | | _
                                                 |NO∥ |
  L | transfer | Public | | ●
                                                  | NO |
   L | allowance | Public | | | NO | |
   L | approve | Public | |
                                                | NON |
   L | transferFrom | Public | | ● | NO | |
  L | increaseAllowance | Public | | Compared | Public | | Compared | Public | Publi
                                                                  |NON |
                                                                  | NON |
  L | totalFees | Public | | NO | |
  L | deliver | Public | | NO | |
  reflectionFromToken | Public | |
   L | tokenFromReflection | Public | |
                                                                  NO
  | onlyOwner |
                                                                | onlyOwner |
   L | transferBothExcluded | Private 🖺 | 🔘 | |
  L | excludeFromFee | Public | | onlyOwner |
   | | <Receive Ether> | External | | III | | NO | |
  reflectFee | Private 🖺 | 🔘 | |
   L | _getValues | Private 🖺 |
                                                     L | getTValues | Private
  __ getRValues | Private 🖺 |
  L | _getRate | Private 🖺 |
  _ getCurrentSupply | Private
  L | _takeLiquidity | Private 🖺 | 🔘
  L | takeDevelopment | Private 🖺 | 🔘 | |
  L | calculateTaxFee | Private 🖺 | | |
   calculateDevelopmentFee | Private 🖺 |
  - | calculateLiquidityFee | Private 🖺 |
```

Function is payable |

### Conclusion

The contracts are written systematically. Team found no critical issues. So, it is good to go for production.

Since possible test cases can be unlimited and developer level documentation (code flow diagram with function level description) not provided, for such an extensive smart contract protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan Everything.

Security state of the reviewed contract is "secured".

- ✓ No mint function.
- ✓ No volatile code.
- ✓ Not many high severity issues were found.
- Contract Ownership Renounced.

### Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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 the team on the basis of what it says or doesn't say, or how team produced it, and it is important for you to conduct your own independent investigations before making any decisions. team go into more detail on this in the below disclaimer below – please make sure to read it in full.

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