

TrusterCoin

Smart Contract Audit Report





TABLE OF CONTENTS

| Audited Details

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

Summary

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

Conclusion

| Audit Results

Smart Contract Analysis

- Detected Vulnerabilities

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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
TrusterCoin	TSC	Binance Smart Chain	

Addresses

Contract address	0xa2a26349448ddafae34949a6cc2cecf78c0497ac	
Contract deployer address	0x177079C15e50D1a880861622B1c0B2Fbe30F78AD	

Project Website

https://trustercoin.finance/

Codebase

https://bscscan.com/address/0xa2a26349448ddafae34949a6cc2cecf78c0497ac#code



SUMMARY

TrusterCoin is a utility token for use on tokenization platforms at a time when business people face one of the greatest challenges in history. The platform will allow the creation of new tokenization of small, medium to large companies through blockchain technology.

Contract Summary

Documentation Quality

TrusterCoin provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

• Standard solidity basecode and rules are already followed by TrusterCoin with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 731.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 119, 151, 174, 175, 210, 246, 473, 714, 714, 714, 714, 715, 715, 734, 734, 734, 734, 734, 735, 735, 735, 735, 735, 735, 868, 870, 907, 953, 972, 978 and 870.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 20.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 869, 870, 870, 954, 954, 955, 956, 1081 and 1082.



CONCLUSION

We have audited the TrusterCoin project released on July 2021 to discover issues and identify potential security vulnerabilities in TrusterCoin Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the TrusterCoin smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. The current pragma Solidity directive is ""^0.6.12"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code. It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.



AUDIT RESULT

Article	Category	Description Res		
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.		
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	sed. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	to trusted PASS	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	9 State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	
Incorrect Inheritance Order	SWC-125		PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135		
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



SMART CONTRACT ANALYSIS

Started	Saturday Jul 10 2021 04:45:25 GMT+0000 (Coordinated Universal Time)		
Finished	Sunday Jul 11 2021 10:17:20 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	TrusterCoin.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 119

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
  require(c >= a, "SafeMath: addition overflow");
  return c;
  return c;
}
```



LINE 151

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
150 require(b <= a, errorMessage);
151  uint256 c = a - b;
152
153 return c;
154 }
155</pre>
```



LINE 174

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
173
174    uint256    c = a * b;
175    require(c / a == b, "SafeMath: multiplication overflow");
176
177    return c;
178
```



LINE 175

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
174    uint256    c = a * b;
175    require(c / a == b, "SafeMath: multiplication overflow");
176
177    return c;
178    }
179
```



LINE 210

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
209    require(b > 0, errorMessage);
210    uint256 c = a / b;
211    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
212
213    return c;
214
```



LINE 246

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
245 require(b != 0, errorMessage);
246 return a % b;
247 }
248 }
249
250
```



LINE 473

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
472   _owner = address(0);
473   _lockTime = now + time;
474   emit OwnershipTransferred(_owner, address(0));
475  }
476
477
```



LINE 714

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 private constant MAX = ~uint256(0);
uint256 private _tTotal = 3000 * 10**6 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
717
718
```



LINE 714

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 private constant MAX = ~uint256(0);
uint256 private _tTotal = 3000 * 10**6 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
717
718
```



LINE 714

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uint256 private constant MAX = ~uint256(0);
uint256 private _tTotal = 3000 * 10**6 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
717
718
```



LINE 714

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Source File

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```
uint256 private constant MAX = ~uint256(0);
uint256 private _tTotal = 3000 * 10**6 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
717
718
```



LINE 715

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
714  uint256 private _tTotal = 3000 * 10**6 * 10**9;
715  uint256 private _rTotal = (MAX - (MAX % _tTotal));
716  uint256 private _tFeeTotal;
717
718  string private _name = "TrusterCoin";
719
```



LINE 715

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
714  uint256 private _tTotal = 3000 * 10**6 * 10**9;
715  uint256 private _rTotal = (MAX - (MAX % _tTotal));
716  uint256 private _tFeeTotal;
717
718  string private _name = "TrusterCoin";
719
```



LINE 734

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
733
734    uint256    public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
735    uint256    private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;
736
737    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
738
```



LINE 734

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
733
734    uint256    public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
735    uint256    private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;
736
737    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
738
```



LINE 734

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol



LINE 734

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
733
734 uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
735 uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;
736
737 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
738
```



LINE 734

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
733
734 uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
735 uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;
736
737 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
738
```



LINE 735

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);
```



LINE 735

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);
```



LINE 735

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);
```



LINE 735

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);
```



LINE 735

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
uint256 private numTokensSellToAddToLiquidity = (3000 / 2000) * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);
```



LINE 868

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
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;
    require(_isExcluded[account] = 0;
}</pre>
```



LINE 870

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _tOwned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 907

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 953

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
952  uint256 tSupply = _tTotal;
953  for (uint256 i = 0; i < _excluded.length; i++) {
954   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
955   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 972

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
971 return _amount.mul(_taxFee).div(
972    10**2
973    );
974  }
975
976
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 978

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
977 return _amount.mul(_liquidityFee).div(
978    10**2
979    );
980    }
981
982
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 870

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- TrusterCoin.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _tOwned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 20

low SEVERITY

The current pragma Solidity directive is ""^0.6.12"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- TrusterCoin.sol

```
19
20 pragma solidity ^0.6.12;
21 // SPDX-License-Identifier: Unlicensed
22 interface IERC20 {
23
24
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 731

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- TrusterCoin.sol

```
730
731 bool inSwapAndLiquify;
732 bool public swapAndLiquifyEnabled = true;
733
734 uint256 public _maxTxAmount = (3000 / 200) * 10**6 * 10**9;
735
```



LINE 869

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
868 for (uint256 i = 0; i < _excluded.length; i++) {
869   if (_excluded[i] == account) {
870     _excluded[i] = _excluded[_excluded.length - 1];
871     _tOwned[account] = 0;
872     _isExcluded[account] = false;
873</pre>
```



LINE 870

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _tOwned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



LINE 870

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
if (_excluded[i] == account) {
870    _excluded[i] = _excluded[_excluded.length - 1];
871    _tOwned[account] = 0;
872    _isExcluded[account] = false;
873    _excluded.pop();
874
```



LINE 954

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
953 for (uint256 i = 0; i < _excluded.length; i++) {
954    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
955    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957    }
958
```



LINE 954

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
953 for (uint256 i = 0; i < _excluded.length; i++) {
954    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
955    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957    }
958
```



LINE 955

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
954  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
  (_rTotal, _tTotal);
955   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957  }
958   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
959</pre>
```



LINE 956

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
955  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957  }
958  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
959  return (rSupply, tSupply);
960</pre>
```



LINE 1081

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
1080 address[] memory path = new address[](2);
1081 path[0] = address(this);
1082 path[1] = uniswapV2Router.WETH();
1083
1084 _approve(address(this), address(uniswapV2Router), tokenAmount);
1085
```



LINE 1082

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- TrusterCoin.sol

```
1081 path[0] = address(this);
1082 path[1] = uniswapV2Router.WETH();
1083
1084 _approve(address(this), address(uniswapV2Router), tokenAmount);
1085
1086
```



DISCLAIMER

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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 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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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.