



TrusterCoin Smart Contract Audit Report

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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 don't 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, 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 | Result |
|-----------------------------------|--------------------|---|--------------------|
| Default Visibility | SWC-100 SWC-108 | Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously. | ISSUE FOUND |
| Integer Overflow and Underflow | SWC-101 | If unchecked math is used, all math operations should be safe from overflows and underflows. | ISSUE FOUND |
| 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. | 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. | ISSUE FOUND |
| Deprecated Solidity Functions | SWC-111 | Deprecated built-in functions should never be used. | PASS |
| Delegate call to Untrusted Callee | SWC-112 | Delegatecalls should only be allowed to trusted addresses. | PASS |

| | | | |
|-------------------------------------|-------------------------------|---|------|
| DoS (Denial of Service) | SWC-113 SWC-128 | Execution of the code should never be blocked by a specific contract state unless required. | PASS |
| Race Conditions | SWC-114 | Race Conditions and Transactions Order Dependency should not be possible. | PASS |
| Authorization through tx.origin | SWC-115 | tx.origin should not be used for authorization. | PASS |
| Block values as a proxy for time | SWC-116 | Block numbers should not be used for time calculations. | PASS |
| 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. | PASS |
| Shadowing State Variable | SWC-119 | State variables should not be shadowed. | PASS |
| Weak Sources of Randomness | SWC-120 | Random values should never be generated from Chain Attributes or be predictable. | PASS |
| 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. | PASS |
| Incorrect Inheritance Order | SWC-125 | When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/. | 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. | PASS |
| 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. | PASS |
| 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. | PASS |
| Unused variables | SWC-131 SWC-135 | Unused variables are allowed in Solidity and they do not pose a direct security issue. | PASS |
| Unexpected Ether balance | SWC-132 | Contracts can behave erroneously when they strictly assume a specific Ether balance. | PASS |
| Hash Collisions Variable | SWC-133 | Using <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision. | PASS |
| Hardcoded gas amount | SWC-134 | The <code>transfer()</code> and <code>send()</code> functions forward a fixed amount of 2300 gas. | PASS |
| 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 |
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| SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED | low | acknowledged |
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| 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

LINE 119

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
118 function add(uint256 a, uint256 b) internal pure returns (uint256) {
119     uint256 c = a + b;
120     require(c >= a, "SafeMath: addition overflow");
121
122     return c;
123 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 151

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 174

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 175

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 210

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```


SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 246

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 473

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 714

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 714

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 714

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 714

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 715

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 715

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 734

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 734

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 734

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 734

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 734

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 735

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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 event SwapAndLiquifyEnabledUpdated(bool enabled);
739
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 735

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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 event SwapAndLiquifyEnabledUpdated(bool enabled);  
739
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 735

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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 event SwapAndLiquifyEnabledUpdated(bool enabled);  
739
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 735

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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 event SwapAndLiquifyEnabledUpdated(bool enabled);
739
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 735

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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 event SwapAndLiquifyEnabledUpdated(bool enabled);  
739
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 868

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
867   require(!_isExcluded[account], "Account is already excluded");
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     }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 870

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
869   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

Locations

```
906     _maxTxAmount = _tTotal.mul(maxTxPercent).div(  
907     10**2  
908     );  
909 }  
910  
911
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 953

low SEVERITY

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

Source File

- TrusterCoin.sol

Locations

```
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

Locations

```
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

Locations

```
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

Locations

```
869     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

Locations

```
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

Locations

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

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

```
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     }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

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

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

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

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

```
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
```

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        (_rTotal, _tTotal);
955     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
956     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
957   }
958
```


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Source File

- TrusterCoin.sol

Locations

```
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
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

```
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
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

```
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
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

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

Locations

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

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