

Tora Inu
Smart Contract
Audit Report





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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain
Tora Inu	TORA	Ethereum

Addresses

Contract address	0x85E43525D41A33bCCB4bCF1Cb3f2ab0B74D59343	
Contract deployer address	0x92A5E5FE9DEEe88A538c4f0e53dC129db900ACE2	

Project Website

https://www.torainu.io/

Codebase

https://etherscan.io/address/0x85E43525D41A33bCCB4bCF1Cb3f2ab0B74D59343#code



SUMMARY

Welcome to the next era of Inu Deflationary rewards meme token, P2E NFT game, and metaverse.

Contract Summary

Documentation Quality

Tora Inu 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 Tora Inu 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 561.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 121, 153, 176, 177, 212, 248, 475, 535, 535, 536, 536, 564, 564, 565, 565, 698, 700, 753, 784, 815, 836, 842, 848, 854, 909, 964 and 700.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 22.
- 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 699, 700, 700, 816, 816, 817, 818, 1002 and 1003.



CONCLUSION

We have audited the Tora Inu project released on October 2022 to discover issues and identify potential security vulnerabilities in Tora Inu 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 a satisfactory result with some low-risk issues.

The issues found in the Tora Inu 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.



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.	the 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.		
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.		
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	1 ,		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	r be used. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



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	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	Unused variables SWC-131 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.	
Hash Collisions Variable	SWC-133		PASS
Hardcoded gas amount	SWC-134		PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



SMART CONTRACT ANALYSIS

Started	Tuesday Oct 11 2022 11:15:45 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Oct 12 2022 08:32:37 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	TORA.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	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
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 121

low SEVERITY

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

Source File

- TORA.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 153

low SEVERITY

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

Source File

- TORA.sol

```
152  require(b <= a, errorMessage);
153  uint256 c = a - b;
154
155  return c;
156  }
157</pre>
```



LINE 176

low SEVERITY

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

Source File

- TORA.sol

```
175
176    uint256    c = a * b;
177    require(c / a == b, "SafeMath: multiplication overflow");
178
179    return c;
180
```



LINE 177

low SEVERITY

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

Source File

- TORA.sol

```
176    uint256    c = a * b;
177    require(c / a == b, "SafeMath: multiplication overflow");
178
179    return c;
180    }
181
```



LINE 212

low SEVERITY

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

Source File

- TORA.sol

```
211  require(b > 0, errorMessage);
212  uint256 c = a / b;
213    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
214
215  return c;
216
```



LINE 248

low SEVERITY

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

Source File

- TORA.sol

```
247 require(b != 0, errorMessage);
248 return a % b;
249 }
250 }
251
252
```



LINE 475

low SEVERITY

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

Source File

- TORA.sol

```
474  _owner = address(0);
475  _lockTime = now + time;
476  emit OwnershipTransferred(_owner, address(0));
477  }
478
479
```



LINE 535

low SEVERITY

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

Source File

- TORA.sol

```
534     uint256     private     constant MAX = ~uint256(0);
535     uint256     private _tTotal = 1_000_000_000 * 10**18;
536     uint256     private _rTotal = (MAX - (MAX % _tTotal));
537     uint256     private _tFeeTotal;
538
539
```



LINE 535

low SEVERITY

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

Source File

- TORA.sol

```
534     uint256     private     constant MAX = ~uint256(0);
535     uint256     private _tTotal = 1_000_000_000 * 10**18;
536     uint256     private _rTotal = (MAX - (MAX % _tTotal));
537     uint256     private _tFeeTotal;
538
539
```



LINE 536

low SEVERITY

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

Source File

- TORA.sol

```
535     uint256     private _tTotal = 1_000_000_000 * 10**18;
536     uint256     private _rTotal = (MAX - (MAX % _tTotal));
537     uint256     private _tFeeTotal;
538
539     uint256     private _tBurnTotal;
540
```



LINE 536

low SEVERITY

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

Source File

- TORA.sol

```
535     uint256     private _tTotal = 1_000_000_000 * 10**18;
536     uint256     private _rTotal = (MAX - (MAX % _tTotal));
537     uint256     private _tFeeTotal;
538
539     uint256     private _tBurnTotal;
540
```



LINE 564

low SEVERITY

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

Source File

- TORA.sol

```
563
564 uint256 public _maxTxAmount = 10_000_000 * 10**18;
565 uint256 public swapTokensAtAmount = 50_000_000 * 10**18;
566
567 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
568
```



LINE 564

low SEVERITY

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

Source File

- TORA.sol

```
563
564 uint256 public _maxTxAmount = 10_000_000 * 10**18;
565 uint256 public swapTokensAtAmount = 50_000_000 * 10**18;
566
567 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
568
```



LINE 565

low SEVERITY

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

Source File

- TORA.sol

```
uint256 public _maxTxAmount = 10_000_000 * 10**18;
uint256 public swapTokensAtAmount = 50_000_000 * 10**18;

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

see a sum of the state o
```



LINE 565

low SEVERITY

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

Source File

- TORA.sol

```
uint256 public _maxTxAmount = 10_000_000 * 10**18;
uint256 public swapTokensAtAmount = 50_000_000 * 10**18;

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

see a sum of the state o
```



LINE 698

low SEVERITY

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

Source File

- TORA.sol

```
require(_isExcluded[account], "Account is already excluded");
for (uint256 i = 0; i < _excluded.length; i++) {
  if (_excluded[i] == account) {
    _excluded[i] = _excluded.length - 1];
    _tOwned[account] = 0;
}</pre>
```



LINE 700

low SEVERITY

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

Source File

- TORA.sol

```
699 if (_excluded[i] == account) {
700    _excluded[i] = _excluded[_excluded.length - 1];
701    _tOwned[account] = 0;
702    _isExcluded[account] = false;
703    _excluded.pop();
704
```



LINE 753

low SEVERITY

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

Source File

- TORA.sol



LINE 784

low SEVERITY

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

Source File

- TORA.sol

```
783
784 uint256 extrafee = tburnFee + tmarketingFee;
785
786 uint256 tTransferAmount = tAmount.sub(tFee).sub(tLiquidity).sub(extrafee);
787 return (tTransferAmount, tFee, tLiquidity);
788
```



LINE 815

low SEVERITY

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

Source File

- TORA.sol

```
814  uint256 tSupply = _tTotal;
815  for (uint256 i = 0; i < _excluded.length; i++) {
816   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
817   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
818   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
819
```



LINE 836

low SEVERITY

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

Source File

- TORA.sol

```
835 return _amount.mul(_taxFee).div(
836    10**2
837    );
838  }
839
840
```



LINE 842

low SEVERITY

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

Source File

- TORA.sol

```
841 return _amount.mul(_liquidityFee).div(
842 10**2
843 );
844 }
845
846
```



LINE 848

low SEVERITY

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

Source File

- TORA.sol

```
847 return _amount.mul(_burnFee).div(
848    10**2
849 );
850 }
851
852
```



LINE 854

low SEVERITY

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

Source File

- TORA.sol

```
853 return _amount.mul(_marketingFee).div(
854    10**2
855   );
856   }
857
858
```



LINE 909

low SEVERITY

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

Source File

- TORA.sol

```
908
909 uint256 contractTokenBalanceforLP = balanceOf(address(this)) -
_pendingMarketingFee;
910
911 bool canSwap = contractTokenBalanceforLP >= swapTokensAtAmount;
912 if (
913
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 964

low SEVERITY

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

Source File

- TORA.sol

```
963 function swapOnDemand() external onlyOwner {
964  uint256 contractTokenBalanceforlp = balanceOf(address(this)) -
   _pendingMarketingFee;
965  if (contractTokenBalanceforlp>0) {
966  inSwapAndLiquify = true;
967  swapAndLiquify(contractTokenBalanceforlp);
968
```



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

LINE 700

low SEVERITY

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

Source File

- TORA.sol



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 22

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

- TORA.sol

```
21
22  pragma solidity ^0.6.12;
23  // SPDX-License-Identifier: Unlicensed
24  interface IERC20 {
25
26
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 561

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

- TORA.sol

```
560
561 bool inSwapAndLiquify;
562 bool public swapAndLiquifyEnabled = true;
563
564 uint256 public _maxTxAmount = 10_000_000 * 10**18;
565
```



LINE 699

low SEVERITY

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

Source File

- TORA.sol



LINE 700

low SEVERITY

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

Source File

- TORA.sol



LINE 700

low SEVERITY

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

Source File

- TORA.sol



LINE 816

low SEVERITY

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

Source File

- TORA.sol

```
815  for (uint256 i = 0; i < _excluded.length; i++) {
816   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
817   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
818   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
819  }
820
```



LINE 816

low SEVERITY

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

Source File

- TORA.sol

```
815  for (uint256 i = 0; i < _excluded.length; i++) {
816   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
817   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
818   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
819  }
820
```



LINE 817

low SEVERITY

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

Source File

- TORA.sol

```
816 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
817    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
818    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
819    }
820    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
821</pre>
```



LINE 818

low SEVERITY

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

Source File

- TORA.sol

```
rSupply = rSupply.sub(_rOwned[_excluded[i]]);
tSupply = tSupply.sub(_tOwned[_excluded[i]]);

for the supply = tSupply.sub(_tOwned[_excluded[i]]);

for the supply = tSupply.sub(_tTowned[_excluded[i]]);

for the supply = rSupply.sub(_tTowned[_excluded[i]]);

for the supply = rSupply = rSupply.sub(_tTowned[_excluded[i]]);

for the supply = rSupply = rSupply
```



LINE 1002

low SEVERITY

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

Source File

- TORA.sol

```
1001 address[] memory path = new address[](2);
1002 path[0] = address(this);
1003 path[1] = uniswapV2Router.WETH();
1004
1005 _approve(address(this), address(uniswapV2Router), tokenAmount);
1006
```



LINE 1003

low SEVERITY

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

Source File

- TORA.sol

```
path[0] = address(this);

1003   path[1] = uniswapV2Router.WETH();

1004

1005   _approve(address(this), address(uniswapV2Router), tokenAmount);

1006
1007
```



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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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