



RYOSHI TOKEN
Smart Contract
Audit Report

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AUDITED DETAILS

Audited Project

| Project name | Token ticker | Blockchain |
|--------------|--------------|---------------------|
| RYOSHI TOKEN | RYOSHI | Binance Smart Chain |

Addresses

| | |
|---------------------------|--|
| Contract address | 0x0e5f989ce525acc4ee45506af91964f7f4c9f2e9 |
| Contract deployer address | 0xa03EE3EcF4Ee6B2fc757FEC41110900d9650aCef |

Project Website

<https://ryoshitoken.com/>

Codebase

<https://bscscan.com/address/0x0e5f989ce525acc4ee45506af91964f7f4c9f2e9#code>

SUMMARY

Decentralized Currency from People to People If 2021 taught the crypto world anything, it's that community-driven meme tokens are in high demand. The people want control of their token, and strong communities of HODLers can be built that have each other's back Ryoshi Success Goals That's why Ryoshi has stepped out of the shadows. See, Ryoshi is Shiba's older, wiser father. He's proud of everything his son has accomplished, but is pretty bummed about the fact that so many people missed their chance to get on the moon rocket. Ryoshi has created a decentralized, deflationary, community token that is by the people, for the people. Ryoshi solves the significant issues of Doge and Shiba – while maintaining the same meme community energy that allowed both assets to rise dramatically. Low Fees One of the major drawbacks of Shiba, and likely the reason the token has stalled out since its initial rise, is the high transaction fees associated with the Ethereum Blockchain upon which it is built. Being a BEP20 token built on the Binance Smart Chain allows Ryoshi to have tiny transaction fees. Transparency An engaged, voracious community deserves full transparency from the asset they love. That's why Ryoshi is now, and will continue to be the most transparent meme token on the market.

Contract Summary

Documentation Quality

RYOSHI TOKEN 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 RYOSHI TOKEN with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 120, 152, 175, 176, 211, 247, 485, 486, 487, 487, 488, 489, 490, 606, 608, 624, 625, 626, 789 and 608.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.

- 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 607, 608, 608, 790, 790, 791 and 792.



CONCLUSION

We have audited the RYOSHI TOKEN project released on July 2021 to discover issues and identify potential security vulnerabilities in RYOSHI TOKEN 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 RYOSHI TOKEN 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, and out-of-bounds array access which the index access expression can cause an exception in case an invalid array index value is used. The current pragma Solidity directive is `""^0.8.2""`. 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.

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. | PASS |
| 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 | Thursday Jul 08 2021 03:51:41 GMT+0000 (Coordinated Universal Time) |
| Finished | Friday Jul 09 2021 01:21:55 GMT+0000 (Coordinated Universal Time) |
| Mode | Standard |
| Main Source File | CoinToken.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

LINE 120

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
119 function add(uint256 a, uint256 b) internal pure returns (uint256) {  
120     uint256 c = a + b;  
121     require(c >= a, "SafeMath: addition overflow");  
122  
123     return c;  
124 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 152

low SEVERITY

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

Source File

- CoinToken.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 175

low SEVERITY

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

Source File

- CoinToken.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 176

low SEVERITY

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

Source File

- CoinToken.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 211

low SEVERITY

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

Source File

- CoinToken.sol

Locations

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


SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 247

low SEVERITY

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

Source File

- CoinToken.sol

Locations

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

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 485

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
484  _DECIMALS = _decimals;  
485  _DECIMALFACTOR = 10 ** _DECIMALS;  
486  _tTotal = _supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 486

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
485  _DECIMALFACTOR = 10 ** _DECIMALS;  
486  _tTotal =_supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489  _BURN_FEE = _burnFee * 100;  
490
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 487

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
486  _tTotal =_supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489  _BURN_FEE = _burnFee * 100;  
490  _CHARITY_FEE = _charityFee* 100;  
491
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 487

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
486  _tTotal =_supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489  _BURN_FEE = _burnFee * 100;  
490  _CHARITY_FEE = _charityFee* 100;  
491
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 488

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
487  _rTotal = (_MAX - (_MAX % _tTotal));
488  _TAX_FEE = _txFee* 100;
489  _BURN_FEE = _burnFee * 100;
490  _CHARITY_FEE = _charityFee* 100;
491  ORIG_TAX_FEE = _TAX_FEE;
492
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 489

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
488     _TAX_FEE = _txFee* 100;
489     _BURN_FEE = _burnFee * 100;
490     _CHARITY_FEE = _charityFee* 100;
491     ORIG_TAX_FEE = _TAX_FEE;
492     ORIG_BURN_FEE = _BURN_FEE;
493
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 490

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
489  _BURN_FEE = _burnFee * 100;
490  _CHARITY_FEE = _charityFee* 100;
491  ORIG_TAX_FEE = _TAX_FEE;
492  ORIG_BURN_FEE = _BURN_FEE;
493  ORIG_CHARITY_FEE = _CHARITY_FEE;
494
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 606

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
605   require(!_isExcluded[account], "Account is already included");
606   for (uint256 i = 0; i < _excluded.length; i++) {
607     if (_excluded[i] == account) {
608       _excluded[i] = _excluded[_excluded.length - 1];
609       _tOwned[account] = 0;
610
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 608

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
607   if (_excluded[i] == account) {  
608     _excluded[i] = _excluded[_excluded.length - 1];  
609     _tOwned[account] = 0;  
610     _isExcluded[account] = false;  
611     _excluded.pop();  
612
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 624

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
623   require(_txFee < 100 && _burnFee < 100 && _charityFee < 100);
624   _TAX_FEE = _txFee* 100;
625   _BURN_FEE = _burnFee * 100;
626   _CHARITY_FEE = _charityFee* 100;
627   ORIG_TAX_FEE = _TAX_FEE;
628
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 625

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
624  _TAX_FEE = _txFee* 100;  
625  _BURN_FEE = _burnFee * 100;  
626  _CHARITY_FEE = _charityFee* 100;  
627  ORIG_TAX_FEE = _TAX_FEE;  
628  ORIG_BURN_FEE = _BURN_FEE;  
629
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 626

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
625  _BURN_FEE = _burnFee * 100;
626  _CHARITY_FEE = _charityFee* 100;
627  ORIG_TAX_FEE = _TAX_FEE;
628  ORIG_BURN_FEE = _BURN_FEE;
629  ORIG_CHARITY_FEE = _CHARITY_FEE;
630
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 789

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
788  uint256 tSupply = _tTotal;
789  for (uint256 i = 0; i < _excluded.length; i++) {
790  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
791  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793
```

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

LINE 608

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
607     if (_excluded[i] == account) {  
608         _excluded[i] = _excluded[_excluded.length - 1];  
609         _tOwned[account] = 0;  
610         _isExcluded[account] = false;  
611         _excluded.pop();  
612     }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is `""^0.8.2""`. 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

- CoinToken.sol

Locations

```
6
7  pragma solidity ^0.8.2;
8
9
10 abstract contract Context {
11
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 607

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
606   for (uint256 i = 0; i < _excluded.length; i++) {
607     if (_excluded[i] == account) {
608       _excluded[i] = _excluded[_excluded.length - 1];
609       _tOwned[account] = 0;
610       _isExcluded[account] = false;
611     }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 608

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
607   if (_excluded[i] == account) {  
608     _excluded[i] = _excluded[_excluded.length - 1];  
609     _tOwned[account] = 0;  
610     _isExcluded[account] = false;  
611     _excluded.pop();  
612
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 608

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
607   if (_excluded[i] == account) {  
608     _excluded[i] = _excluded[_excluded.length - 1];  
609     _tOwned[account] = 0;  
610     _isExcluded[account] = false;  
611     _excluded.pop();  
612
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
789   for (uint256 i = 0; i < _excluded.length; i++) {
790     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793   }
794
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
789   for (uint256 i = 0; i < _excluded.length; i++) {
790     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793   }
794
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 791

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
790  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
791  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793  }
794  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
795
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 792

low SEVERITY

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

Source File

- CoinToken.sol

Locations

```
791   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793   }
794   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
795   return (rSupply, tSupply);
796
```

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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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