Loong

Smart Contract Audit Report

SYSFIXED

TABLE OF CONTENTS

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Loong	Loong	Ethereum

Addresses

Contract address	0x613Df740e9DeD8d50A044a2B259c99c44C9DD929
Contract deployer address	0x5e41bc5922370522800103F826c3BB9CD5D83f1a

Project Website

https://longerc.com/

Codebase

https://etherscan.io/address/0x613Df740e9DeD8d50A044a2B259c99c44C9DD929#code

SUMMARY

Loong "The 120 year old dragon" has come to ERC20.
Join the community on this fresh launch with a team who has done millions of market cap several times!

Contract Summary

Documentation Quality

Loong 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 Loong 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 87, 102, 110, 111, 125, 179, 179, 180, 180, 206, 206, 207, 356, 362, 364, 430, 560, 560, 560, 576, 576, 577, 581, 581, 582 and 586.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 16.
- 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 402, 403, 431 and 587.

CONCLUSION

We have audited the Loong project released on January 2023 to discover issues and identify potential security vulnerabilities in Loong 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 Loong 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 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.	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 abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() 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

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SMART CONTRACT ANALYSIS

Started	Tuesday Jan 10 2023 22:24:21 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Jan 11 2023 00:23:15 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Loong.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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 87

low SEVERITY

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

Source File

- Loong.sol

Locations

```
86    function add(uint256 a, uint256 b) internal pure returns (uint256) {
87    uint256 c = a + b;
88    require(c >= a, "SafeMath: addition overflow");
89    return c;
90    }
91
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 102

low SEVERITY

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

Source File

- Loong.sol

Locations

```
101    require(b <= a, errorMessage);
102    uint256 c = a - b;
103    return c;
104    }
105
106
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 110

low SEVERITY

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

Source File

- Loong.sol

Locations

```
109    }
110    uint256 c = a * b;
111    require(c / a == b, "SafeMath: multiplication overflow");
112    return c;
113    }
114
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 111

low SEVERITY

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

Source File

- Loong.sol

Locations

```
110    uint256 c = a * b;
111    require(c / a == b, "SafeMath: multiplication overflow");
112    return c;
113    }
114
115
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 125

low SEVERITY

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

Source File

- Loong.sol

Locations

```
124    require(b > 0, errorMessage);
125    uint256 c = a / b;
126    return c;
127    }
128    }
129
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 179

low SEVERITY

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

Source File

- Loong.sol

Locations

```
178   uint256 private constant MAX = ~uint256(0);
179   uint256 private constant _tTotal = 100000000 * 10**9;
180   uint256 private _rTotal = (MAX - (MAX % _tTotal));
181   uint256 private _tFeeTotal;
182   uint256 private _MFeeOnBuy = 0;
183
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 179

low SEVERITY

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

Source File

- Loong.sol

Locations

```
178    uint256 private constant MAX = ~uint256(0);
179    uint256 private constant _tTotal = 100000000 * 10**9;
180    uint256 private _rTotal = (MAX - (MAX % _tTotal));
181    uint256 private _tFeeTotal;
182    uint256 private _MFeeOnBuy = 0;
183
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 180

low SEVERITY

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

Source File

- Loong.sol

Locations

```
179    uint256 private constant _tTotal = 100000000 * 10**9;
180    uint256 private _rTotal = (MAX - (MAX % _tTotal));
181    uint256 private _tFeeTotal;
182    uint256 private _MFeeOnBuy = 0;
183    uint256 private _taxFeeOnBuy = 10;
184
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED
LINE 180

low SEVERITY

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

Source File

- Loong.sol

Locations

```
179    uint256 private constant _tTotal = 100000000 * 10**9;
180    uint256 private _rTotal = (MAX - (MAX % _tTotal));
181    uint256 private _tFeeTotal;
182    uint256 private _MFeeOnBuy = 0;
183    uint256 private _taxFeeOnBuy = 10;
184
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 206

low SEVERITY

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

Source File

- Loong.sol

Locations

```
205   uint256 public _maxTxAmount = _tTotal;
206   uint256 public _maxWalletSize = _tTotal * 2 / 100;
207   uint256 public _swapTokensAtAmount = _tTotal / 1000;
208
209   event MaxTxAmountUpdated(uint256 _maxTxAmount);
210
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 206

low SEVERITY

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

Source File

- Loong.sol

Locations

```
205    uint256 public _maxTxAmount = _tTotal;
206    uint256 public _maxWalletSize = _tTotal * 2 / 100;
207    uint256 public _swapTokensAtAmount = _tTotal / 1000;
208
209    event MaxTxAmountUpdated(uint256 _maxTxAmount);
210
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 207

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

Source File
- Loong.sol

Locations

```
206    uint256 public _maxWalletSize = _tTotal * 2 / 100;
207    uint256 public _swapTokensAtAmount = _tTotal / 1000;
208
209    event MaxTxAmountUpdated(uint256 _maxTxAmount);
210    modifier lockTheSwap {
211
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 356

low SEVERITY

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

Source File

- Loong.sol

Locations

```
355   if(to != uniswapV2Pair) {
356   require(balanceOf(to) + amount < _maxWalletSize, "TOKEN: Balance exceeds wallet
size!");
357   }
358
359   uint256 contractTokenBalance = balanceOf(address(this));
360
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 362

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

Source File
- Loong.sol

Locations

```
361
362    if(contractTokenBalance >= _swapTokensAtAmount*8)
363    {
364    contractTokenBalance = _swapTokensAtAmount*8;
365    }
366
```

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SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 364

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

Source File
- Loong.sol

Locations

```
363    {
364    contractTokenBalance = _swapTokensAtAmount*8;
365    }
366
367    if (canSwap && !inSwap && from != uniswapV2Pair && swapEnabled &&
       !_isExcludedFromFee[from] && !_isExcludedFromFee[to]) {
368
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED
LINE 430

low SEVERITY

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

Source File

- Loong.sol

Locations

```
429    function blockBots(address[] memory bots_) public onlyOwner {
430    for (uint256 i = 0; i < bots_.length; i++) {
431    bots[bots_[i]] = true;
432    }
433    }
434
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 560

low SEVERITY

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

Source File

- Loong.sol

Locations

```
559    _taxFeeOnSell = taxFeeOnSell;
560    uint256 totalFee = _MFeeOnBuy+_MFeeOnSell+_taxFeeOnBuy+_taxFeeOnSell;
561    require (totalFee <= 25,"Total Fees cannot be more than 25%");
562    }
563
564
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 560

low SEVERITY

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

Source File

- Loong.sol

Locations

```
559    _taxFeeOnSell = taxFeeOnSell;
560    uint256 totalFee = _MFeeOnBuy+_MFeeOnSell+_taxFeeOnBuy+_taxFeeOnSell;
561    require (totalFee <= 25,"Total Fees cannot be more than 25%");
562    }
563
564
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 560

low SEVERITY

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

Source File

- Loong.sol

Locations

```
559    _taxFeeOnSell = taxFeeOnSell;
560    uint256 totalFee = _MFeeOnBuy+_MFeeOnSell+_taxFeeOnBuy+_taxFeeOnSell;
561    require (totalFee <= 25,"Total Fees cannot be more than 25%");
562    }
563
564
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 576

low SEVERITY

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

Source File

- Loong.sol

Locations

```
575    function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
576    _maxTxAmount = _tTotal*maxTxAmount/100;
577    require (_maxTxAmount>= _tTotal/100);
578    }
579
580
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 576

low SEVERITY

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

Source File

- Loong.sol

Locations

```
575    function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
576    _maxTxAmount = _tTotal*maxTxAmount/100;
577    require (_maxTxAmount>= _tTotal/100);
578    }
579
580
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 577

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

Source File
- Loong.sol

Locations

```
576    _maxTxAmount = _tTotal*maxTxAmount/100;
577    require (_maxTxAmount>= _tTotal/100);
578    }
579
580    function setMaxWalletSize(uint256 maxWalletSize) public onlyOwner {
581
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 581

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

Source File
- Loong.sol

Locations

```
580     function setMaxWalletSize(uint256 maxWalletSize) public onlyOwner {
581     _maxWalletSize = _tTotal*maxWalletSize/100;
582     require (_maxWalletSize>= _tTotal/100);
583     }
584
585
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 581

low SEVERITY

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

Source File

- Loong.sol

Locations

```
580     function setMaxWalletSize(uint256 maxWalletSize) public onlyOwner {
581     _maxWalletSize = _tTotal*maxWalletSize/100;
582     require (_maxWalletSize>= _tTotal/100);
583     }
584
585
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 582

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

Source File
- Loong.sol

Locations

```
581    _maxWalletSize = _tTotal*maxWalletSize/100;
582    require (_maxWalletSize>= _tTotal/100);
583    }
584
585    function excludeMultipleAccountsFromFees(address[] calldata accounts, bool
excluded) public onlyOwner {
586
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED
LINE 586

low SEVERITY

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

Source File

- Loong.sol

Locations

```
585   function excludeMultipleAccountsFromFees(address[] calldata accounts, bool
excluded) public onlyOwner {
586   for(uint256 i = 0; i < accounts.length; i++) {
587   _isExcludedFromFee[accounts[i]] = excluded;
588   }
589   }
590
```

SWC-103 | A FLOATING PRAGMA IS SET.
LINE 16

low SEVERITY

The current pragma Solidity directive is ""^0.8.9"". 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

- Loong.sol

Locations

```
15    // SPDX-License-Identifier: Unlicensed
16    pragma solidity ^0.8.9;
17
18    abstract contract Context {
19    function _msgSender() internal view virtual returns (address) {
20
```

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SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 402

low SEVERITY

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

Source File

- Loong.sol

Locations

```
401    address[] memory path = new address[](2);
402    path[0] = address(this);
403    path[1] = uniswapV2Router.WETH();
404    _approve(address(this), address(uniswapV2Router), tokenAmount);
405    uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
406
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 403

low SEVERITY

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

Source File

- Loong.sol

Locations

```
402    path[0] = address(this);
403    path[1] = uniswapV2Router.WETH();
404    _approve(address(this), address(uniswapV2Router), tokenAmount);
405    uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
406    tokenAmount,
407
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 431

low SEVERITY

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

Source File

- Loong.sol

Locations

```
430    for (uint256 i = 0; i < bots_.length; i++) {
431    bots[bots_[i]] = true;
432    }
433    }
434
435
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 587

low SEVERITY

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

Source File

- Loong.sol

Locations

```
586   for(uint256 i = 0; i < accounts.length; i++) {
587   _isExcludedFromFee[accounts[i]] = excluded;
588   }
589   }
590
591
```

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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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