



Loong

# Smart Contract Audit Report

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## Disclaimer

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# 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 <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	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
```



# 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
```

## 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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