

Audit Details



Audited project

CALLISTO TOKEN



Deployer address

0x07e71a6A4eAe5087f0f847cE7EA87D64CA7ecBB2



Client contacts:

CALLISTO TOKEN Team



Blockchain

Binance Smart Chain



Project website:

Not Provided By CALLISTO TOKEN Team

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

Itish was commissioned by CALLISTO TOKEN to perform an audit of smart contracts:

https://bscscan.com/token/0x07e71a6A4eAe5087f0f847cE7EA87D64CA7ecBB2

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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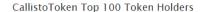
0 1 1 0 2 2 1 0 1 1 1 1 1 1 1 0 0 0 0 1 0 0

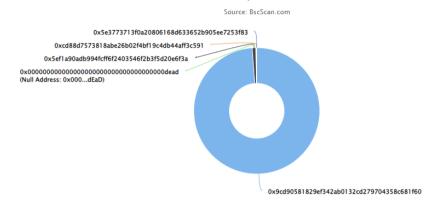
Contracts Details

Token contract details for 16.06.2021

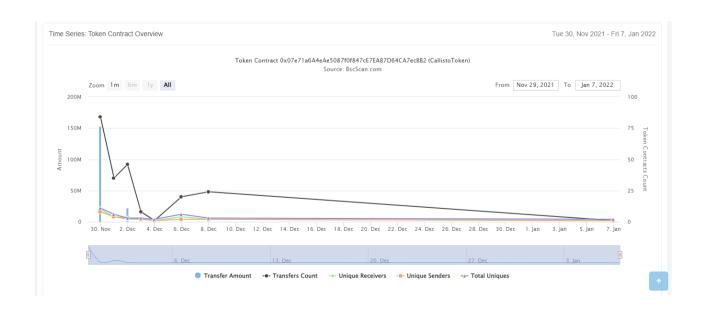
Contract name	CALLISTO TOKEN
Contract address 0	0x07e71a6A4eAe5087f0f847cE7EA87D64CA7ecBB2
Total supply 5	52,695,972.01
Token ticker	С Т
Decimal CALLISTO 1	18
Token holders 8	3
Transactions count 2	219
Top 100 holders dominance	00.00%
Liquidity fee 0	0.17
Tax fee 0	
Total fees 0	0.25
Token Creator	0x9cd90581829ef342ab0132cd279704358c681f60

CALLISTO TOKEN Distribution





CALLISTO TOKEN Contract Interaction Details



CALLISTO TOKEN Top 10 Token Holders

Rank	Address	Quantity	Percentage	Analytics
1	0x9cd90581829ef342ab0132cd279704358c681f60	52,091,857.783481071495978501	98.8536%	
2	₫ 0x5ef1a90adb994fcff6f2403546f2b3f5d20e6f3a	494,629.33574963455985131	0.9386%	<u>~</u>
3	Null Address: 0x000dEaD	109,482	0.2078%	<u>~</u> "
4	₫ 0xcd88d7573818abe26b02f4bf19c4db44aff3c591	1.663610183639398998	0.0000%	<u>~</u>
5	0x5e3773713f0a20806168d633652b905ee7253f83	0.709145023995027412	0.0000%	<u>~</u>
6	0x6d96254e563907d0b73a5cbaadeea761a20cd8cb	0.522642655205199938	0.0000%	<u>~</u>
7	PancakeSwap V2: YCT 13	0.003809316574913395	0.0000%	<u>~</u>
8	PancakeSwap V2: YCT-BUSD 4	0.000398993150320019	0.0000%	<u>~</u>

Contract Functions Details

+ [Int] IBEP20

- [Ext] balanceOf
- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ Ownable (Context)

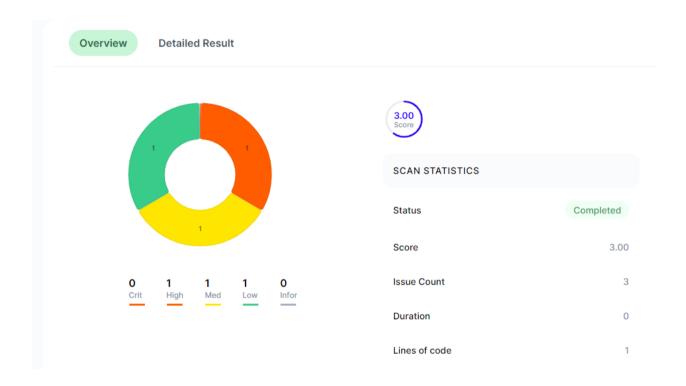
- [Int] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Pub] geUnlockTime
- [Pub] lock #
 - modifiers: onlyOwner
- [Pub] unlock #

```
+ CALLISTOToken (Context, IBEP20, Ownable)
 - [Pub] <Constructor>#
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimCALLISTO
 - [Pub] totCALLISTOupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Pub] isExcludedFromReward
 - [Pub] totalFees
 - [Pub] deliver #
 - [Pub] reflectionFromToken
 - [Pub] tokenFromReflection
 - [Pub] excludeFromReward #
  - modifiers: onlyOwner
 - [Ext] includeInReward #
  - modifiers: onlyOwner
 - [Prv] transferBothExcluded #
 - [Pub] excludeFromFee #
   - modifiers: onlyOwner
 [Pub] includeInFee #
   - modifiers: onlyOwner
 - [Ext] setTaxFeePercent #
  - modifiers: onlyOwner
 - [Ext] setLiquidityFeePercent #
  - modifiers: onlyOwner
 - [Ext] setMaxTxPercent #
   - modifiers: onlyOwner
 - [Pub] setSwapAndLiquifyEnabled#
   - modifiers: onlyOwner
($) = payable function
(#) = non-constant function
```

Issues Checking Status

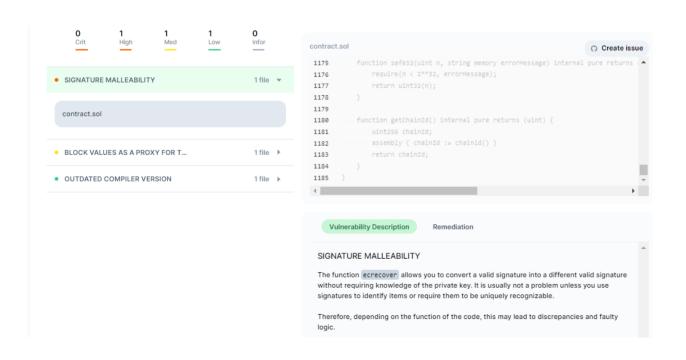
Issue description	Checking status
1. Compiler errors.	Passed
2. Compiler Compatibilities	Failed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Moderate
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Moderate
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Severe
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Moderate
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Failed
21. Fallback function security.	Passed

Security Issues



High Severity Issues

One high severity issues found.

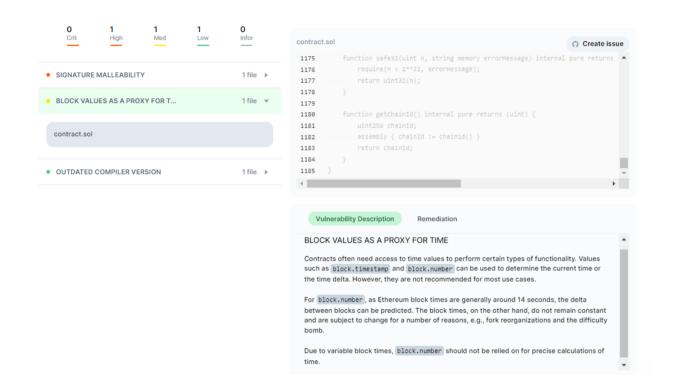


REMEDIATION METHOD:

It is recommended to use <u>OpenZeppelin's ECDSA</u> library that has a wrapper around <u>ecrecover</u> that mitigates this issue. The data signer can be recovered using <u>ECDSA.recover</u>, and its address can be compared to verify the signature.

Medium Severity Issues

One medium severity issues found.

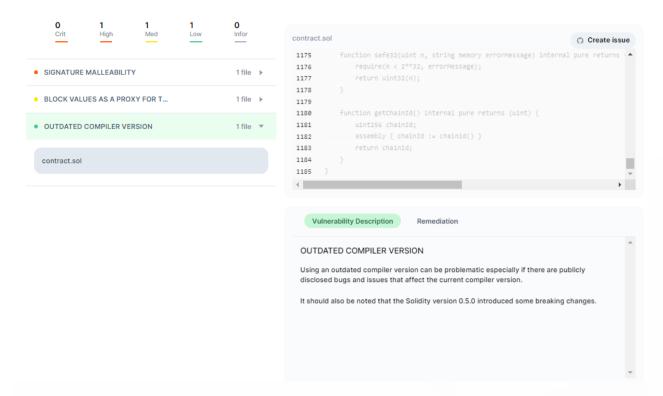


REMEDIATION METHOD:

Smart contracts should be written with the idea that block values are not precise, and their use can have unexpected results. Alternatively, oracles can be used.

Low Severity Issues

One Low severity issues found.



REMEDIATION METHOD:

It is recommended to use a recent version of the Solidity compiler, preferably something above 0.8.4+ that patches most of the vulnerabilities introduced in older compiler versions.

Conclusion

Smart contracts contain High severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details NOT provided by the team.

Itish note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.