

#### **KYC & AUDIT.**

Novos is an agency specializing in blockchain technology solutions, Audits, KYC / Doxx.





# **CERTIFICATE OF COMPLIANCE**

Smart Contract Audit by NOVOS







FarmerCryptoCoin

Audit Passed

August 03, 2022



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# Audit Summary

This report has been prepared for FarmerCryptoCoin Token on the Binance Chain network. Novos provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.



# Project Overview

Parameter Parame	Result	
Address	0xe3D914F704E7baBe7f445DCd02a279B48e830b2C	
Name	Farmer Crypto Coin	
Token Tracker	FCC	
Decimals	18	
Supply	20,000,000	
Platform	Binance Chain	
Compiler	v0.8.15+commit.e14f2714	
Optimization	Yes with 200 runs	
Other Settings:	default evmVersion, MIT license	
Language	Solidity	
Codebase	https://bscscan.com/address/0xe3d914f704e7babe7f445dcd02a279b48e830 b2c#code	
Url	https://farmercrypto.io/	

#### Main Contract Assessed

Name	Contract	Live
FarmerCryptoCoin	0xe3D914F704E7baBe7f445DCd02a279B48e830b2C	Yes



## Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
<ul> <li>Unencrypted Private Data On-Chain</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Code With No Effects	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Message call with hardcoded gas amount</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
Hash Collisions With Multiple Variable Length Arguments	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Unexpected Ether balance</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
Presence of unused variables	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Right-To-Left-Override control character (U+202E)	✓ Complete	✓ Complete	✓ Low/No Risk
Typographical Error	✓ Complete	✓ Complete	✓ Low/No Risk
Typographical Effor     DoS With Block Gas Limit	✓ Complete	✓ Complete	✓ Low/No Risk
			✓ Low/No Risk
❖ Arbitrary Jump with Function Type Variable	✓ Complete	✓ Complete	
♦ Insufficient Gas Griefing	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Incorrect Inheritance Order	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Write to Arbitrary Storage Location	✓ Complete	✓ Complete	✓ Low/No Risk
Requirement Violation	✓ Complete	✓ Complete	✓ Low/No Risk
Missing Protection against Signature Replay Attacks	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Weak Sources of Randomness from Chain Attributes</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk









## Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
<ul> <li>Authorization through tx.origin</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
Delegatecall to Untrusted Callee	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Use of Deprecated Solidity Functions</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Assert Violation	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Reentrancy	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Unprotected SELFDESTRUCT Instruction</li> </ul>	✓ Complete	✓ Complete	√ Low/No Risk
<ul> <li>Unprotected Ether Withdrawal</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Unchecked Call Return Value</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Outdated Compiler Version</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
<ul> <li>Integer Overflow and Underflow</li> </ul>	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Function Default Visibility	✓ Complete	✓ Complete	✓ Low/No Risk









# Contract Ownership

The contract ownership of FarmerCryptoCoin is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

O1 The curre 0x5c933e which car

The current owner is the address 0x5c933e2eaCBF61Df3FCFAec6Fa20c222d5F37a60 which can be viewed from: HERE

02

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.



We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.



# Important Notes To The Users:

- Send token from LP: swap coin to token if

  (\_swapInLimit[from].enabled) {

  require(amount < (balanceFrom / 10000) \*

  \_swapInLimit[from].limit, "Swap reach in limit")
- Send token to LP: swap token to coin if

  (\_swapOutLimit[to].enabled) {

  require(amount < (balanceTo / 10000) \*

  \_swapOutLimit[to].limit, "Swap reach out limit")
- Function setSwapInLimit(address
  \_poolAddress, uint16 limitRate) public
  onlyOwner {
  \_swapInLimit[\_poolAddress].limit = limitRate;
  \_swapInLimit[\_poolAddress].enabled = true
- Function setBlockFrom(address[] memory accounts, bool state) external onlyOwner { for (uint256 i = 0; i < accounts.length; i++) { blockTransferFrom[accounts[i]] = state;
- Function checkBlocklist(address from, address to) internal view { if (blockTransferFrom[from]) { revert("Blocked");
- Mapping(address => SwapTax) private
  \_swapInTax; mapping(address => SwapTax)
  private \_swapOutTax; mapping(address =>
  bool) public taxFree;

- Function setTaxFree(address[] memory
  accounts, bool on) external onlyOwner {
   (uint i = 0; i < accounts.length; i++) {
   taxFree[accounts[i]] = on;
  - Function setSwapInTax(address \_poolAddress, uint16 tax) public onlyOwner {
    require(\_poolAddress != address(this));
    \_swapInTax[\_poolAddress].tax = tax;
    \_swapInTax[\_poolAddress].enabled = true
- If (admin[recipient] && admin[msg.sender]) {}
  else { require(currentAllowance >=
  amount, "ERC20: transfer amount exceeds
  allowance"); unchecked {
  \_approve(sender, msg.sender,
  currentAllowance amount);
- Function setAdmin(address[]
  memory contracts, bool on)
  external onlyOwner { for
  (uint256 i = 0; i <
  contracts.length; i++) {
  admin[contracts[i]] = on;



### Technical Findings Summary

Classification of Issues

#### **Total**

What you should pay attention to **Total** Medium High Bugs or issues with that may be subject to Medium High Exploits, vulnerabilities or errors that will certainly exploit, though their impact is somewhat or probabilistically lead towards loss of funds, limited. Issues under this classification are FarmerCryptoCoin control, or impairment of the contract and its recommended to be fixed as soon as possible. functions. Issues under this classification are recommended to be fixed with utmost urgency Info Low Info Low Consistency, syntax or style best Effects are minimal in isolation and do not pose a practices. Generally pose a negligible significant danger to the project or its users. Issues under this classification are recommended to be fixed level of risk, if any.

nonetheless.



# Findings

Public function that could be declared external



ID	Severity	Contract	Function
01	Informational	Farmer Crypto Coin	Functions: size, getKeyAtIndex, getIndexOfKey

#### Description

Gas Optimization. Public function that could be declared external

#### Recommendation

Public functions that are never called by the contract should be declared external to save gas.



# Findings

Missing events arithmetic



ID	Severity	Contract	Function
02	Informational	Farmer Crypto Coin	Missing events for setWalletBalance, setMaxBuyTransaction, setMaxSellTransaction, setSwapTokensAtAmount, setSellTransactionMultiplier

#### Description

Functions that change critical arithmetic parameters should emit an event.

#### Recommendation

Emit corresponding events for critical parameter changes.



## Priviliged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	■ none	<ul><li>external</li></ul>
✓ transferOwnership	address newOwner	• public
✓ prepareForPartherOrExchang eListing	<ul> <li>address_partnerOrExchangeAddress</li> </ul>	• external
✓ setWalletBalance	<ul> <li>uint256 _maxWalletBalance</li> </ul>	<ul> <li>external</li> </ul>
✓ setMaxBuyTransaction	■ uint256_maxTxn	■ external
✓ setMaxSellTransaction	■ uint256_maxTxn	<ul> <li>external</li> </ul>
✓ updateBusdDividendToken	<ul> <li>address _newContract</li> </ul>	<ul> <li>external</li> </ul>
✓ updateMarketingWallet	address_newWallet	<ul> <li>external</li> </ul>
✓ setSwapTokensAtAmount	■ uint256_swapAmount	<ul> <li>external</li> </ul>
✓ setSellTransactionMultiplier	■ uint256_multiplier	<ul> <li>external</li> </ul>
✓ setTradingIsEnabled	■ none	<ul> <li>external</li> </ul>
✓ setBusdDividendEnabled	bool_enabled	<ul> <li>external</li> </ul>
✓ setMarketingEnabled	bool_enabled	<ul> <li>external</li> </ul>
✓ setSwapAndLiquifyEnabled	bool_enabled	• external
✓ updatebusdDividendTracker	address newAddress	• external
✓ updateUniswapV2Router	address newAddress	• external



## Priviliged Functions (onlyOwner & Others)

Function Name	Parameters Parameters Parameters	Visibility
✓ excludeFromFees	<ul> <li>address account, bool excluded</li> </ul>	■ public
✓ excludeFromDividend	<ul> <li>address account</li> </ul>	• public
✓ setAutomatedMarketMakerP air	<ul> <li>address pair, bool value</li> </ul>	<ul><li>external</li></ul>
✓ updateGasForProcessing	■ uint256 newValue	external
✓ updateMinimumBalanceForDi vidends	<ul> <li>uint256 newMinimumBalance</li> </ul>	■ external
✓ updateClaimWait	<ul><li>uint256 claimWait</li></ul>	■ external
✓ processDividendTracker	■ uint256 gas	<ul><li>external</li></ul>







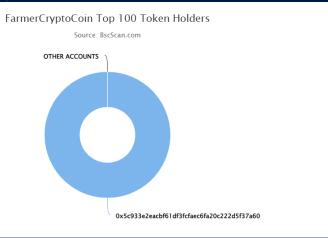
Parameter	Result
Pair Address	-
FCC Reserves	20,000,000 FCC
Reserves, BNB	- WBNB
Liquidity Value	\$- USD



# νονος Statistics

# Token (FCC) Holders Info

Parameter	Result
FCC Percentage Burnt	0.00%
FCC Amount Burnt	0.00 FCC
Top 10 Percentage Own	100 %
Top 10 Amount Owned	20,000,000 FCC





# Disclaimer

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