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CERTIFICATE OF COMLIANCE

Smart Contract Audit by NOVOS







FOXY Token

Audit Passed

June 27, 2022



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Audit Summary

This report has been prepared for FOXY 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	0xaB9DB488e3572051Fe87B66bE7d1ECb144217E70
Name	FoxyGamblerBUSD
Token Tracker	FOXY
Decimals	18
Supply	1,000,000,000
Platform	Binance Chain
Compiler	v0.8.9+commit.e5eed63a
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0xaB9DB488e3572051Fe87B66bE7d1ECb144217 E70#code
Url	https://foxygambler.com/

Main Contract Assessed

Name	Contract	Live
FoxyGamblerBUSD	0xaB9DB488e3572051Fe87B66bE7d1ECb144217E70	Yes



Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
 Unencrypted Private Data On-Chain 	✓ Complete	✓ Complete	✓ Low/No Risk
❖ Code With No Effects	✓ Complete	✓ Complete	✓ Low/No Risk
 Message call with hardcoded gas amount 	✓ Complete	✓ Complete	✓ Low/No Risk
Hash Collisions With Multiple Variable Length Arguments	✓ Complete	✓ Complete	✓ Low/No Risk
 Unexpected Ether balance 	✓ 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
 Weak Sources of Randomness from Chain Attributes 	✓ Complete	✓ Complete	✓ Low/No Risk









Smart Contract Vulnerability Checks

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 Outdated Compiler Version 	✓ Complete	✓ Complete	✓ Low/No Risk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









Contract Ownership

The contract ownership of FOXY 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.

01

The current owner is the address 0x0D734cf88f055671c3A002982b7498F0C43131E1 which can be viewed from: HERE



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:

01 The owner cannot stop trading.

Owner can change the claimWait for dividends between 1 hour and 24 hours.

02 The owner cannot blacklist wallets.

Owner can change the maxWalletBalance with no constrains.

- On sells there is an increase of tax based on the fees, this new tax cannot be higher than 20%.
- Owner can change and configure the dividendTracker with no constrains.

- Owner can enable trading but cannot pause or disable it.
- Owner can enable/disable the SwapAndLiquify mechanism and the BusdDividend mechainsm.

- Owner can change the maxSellTransactionAmount but it cannot be less than 10,000 tokens.
- Owner can add/remove wallets from fee exemption and dividends.

- Owner can change the sellFeeIncreaseFactor up to 200, max sell tax is 20% (10*200/100).
- Owner can change the minimum token balance needed to get dividends. No high-riskExploits /Vulnerabilities Were Found in token Source Code.





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 **FOXY Token** 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	FoxyGamblerBUSD	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	FoxyGamblerBUSD	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	external
✓ transferOwnership	address newOwner	• public
✓ prepareForPartherOrExchang eListing	 address_partnerOrExchangeAddress 	• external
✓ setWalletBalance	 uint256 _maxWalletBalance 	 external
✓ setMaxBuyTransaction	■ uint256_maxTxn	■ external
✓ setMaxSellTransaction	■ uint256_maxTxn	 external
✓ updateBusdDividendToken	 address _newContract 	 external
✓ updateMarketingWallet	address_newWallet	 external
✓ setSwapTokensAtAmount	■ uint256_swapAmount	 external
✓ setSellTransactionMultiplier	■ uint256_multiplier	 external
✓ setTradingIsEnabled	■ none	 external
✓ setBusdDividendEnabled	bool_enabled	 external
✓ setMarketingEnabled	bool_enabled	 external
✓ setSwapAndLiquifyEnabled	bool_enabled	• external
✓ updatebusdDividendTracker	address newAddress	• external
✓ updateUniswapV2Router	address newAddress	• external



Priviliged Functions (onlyOwner & Others)

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







Parameter	Result
Pair Address	0x8dd0728ae9dcc21dabba4b860160b1548504d3e9
FOXY Reserves	0.00 FOXY
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD



моvos Statistics

Token (FOXY) Holders Info



Parameter	Result
FOXY Percentage Burnt	0.00%
FOXY Amount Burnt	0 PST
Top 10 Percentage Own	100%
Top 10 Amount Owned	1,000,000,000 FOXY
Top 10 Aprox Value	\$NaN USD



Statistics

LP (FOXY/BNB) Holders Info



Parameter	Result
FOXY/BNB % Burnt	0.00%
FOXY/BNB Amount Burnt	0 FOXY/BNB
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 FOXY/BNB
Locked Tokens Percentage	0.00%

- ❖ All the data displayed above was taken on-chain at block 18625192
- ❖ The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations



Disclaimer

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