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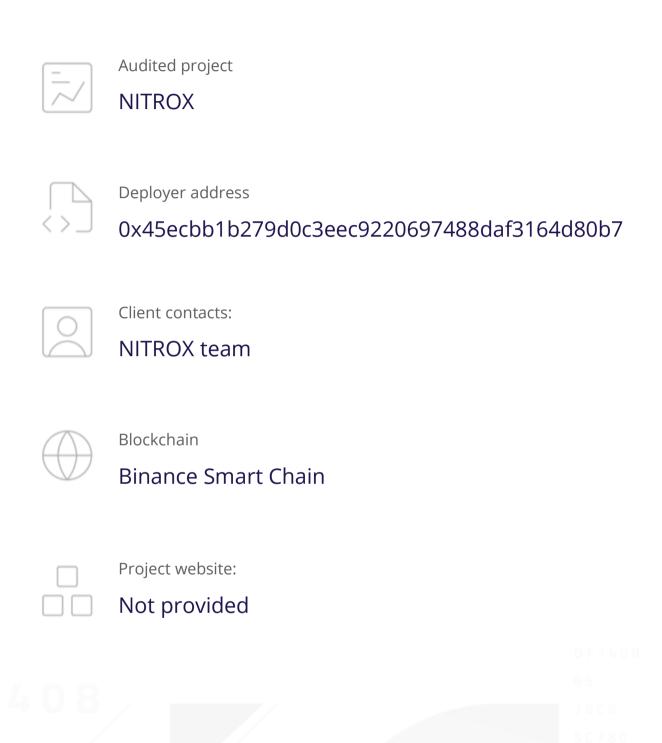
SMART CONTRACTS SECURITY **AUDIT REPORT**







Audit Details





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

TechRate was commissioned by NITROX to perform an audit of smart contracts:

https://bscscan.com/address/0x2976284040d8d36fc8cd0d458d4d5bcfa4c6d2f8#code

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.



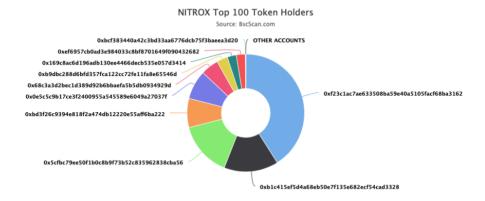
Contracts Details

Token contract details for 10.04.2022

Contract name	NITROX
Contract address	0x2976284040d8d36fc8CD0d458D4D5bcFA4c6D2f8
Total supply	1,290,000,000
Token ticker	NOX
Decimals	18
Token holders	31
Transactions count	41
Top 100 holders dominance	100.00%
Total fees	0
Max tax fee	5
Max liq fee	10
pcs V2 pair	0x720bb0baac9c2371a6a5be935c1630f1775a99cd
Contract deployer address	0x45ecbb1b279d0c3eec9220697488daf3164d80b7
Owner address	0x45ecbb1b279d0c3eec9220697488daf3164d80b7

NITROX Token Distribution





 $(A\ total\ of\ 1,290,000,000.00\ tokens\ held\ by\ the\ top\ 100\ accounts\ from\ the\ total\ supply\ of\ 1,290,000,000.00\ token)$

NITROX Contract Interaction Details



NITROX Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1		528,900,000	41.0000%
2	₫ 0xb1c415ef5d4a68eb50e7f135e682ecf54cad3328	193,500,000	15.0000%
3	₫ 0x5cfbc79ee50f1b0c8b9f73b52c835962838cba56	193,500,000	15.0000%
4	0xbd3f26c9394e818f2a474db12220e55aff6ba222	103,199,800	8.0000%
5	0x0e5c5c9b17ce3f2400955a545589e6049a27037f	103,184,000	7.9988%
6	₫ 0x68c3a3d2bec1d389d92b6bbaefa5b5db0934929d	63,210,000	4.9000%
7	0xb9dbc288d6bfd357fca122cc72fe11fa8e65546d	38,700,000	3.0000%
8	0x169c8ac6d196adb130ee4466decb535e057d3414	32,250,000	2.5000%
9	d 0xef6957cb0ad3e984033c8bf8701649f090432682	32,224,779.55497504790622748	2.4980%
10	① 0xbcf383440a42c3bd33aa6776dcb75f3baeea3d20	1,290,000	0.1000%

65 76C6 5C780 29C4CAD8 C4 87C9C





Contract functions details

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [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 #

+ [Lib] SafeERC20

- [Int] safeTransfer #
- [Int] safeTransferFrom #
- [Int] safeApprove #
- [Int] safeIncreaseAllowance #
- [Int] safeDecreaseAllowance #
- [Prv] _callOptionalReturn #

+ Ownable (Context)

- [Pub] <Constructor> #

- [Pub] owner
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Pub] geUnlockTime
- [Pub] lock #
 - modifiers: onlyOwner
- [Pub] unlock #

+ [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn

+ [Int] IUniswapV2Router02 (IUniswapV2Router01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #

- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + NitroxContractV2 (Context, IERC20, Ownable)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [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
 - [Ext] setBlacklistTimeout #
 - modifiers: onlyOwner
 - [Ext] blacklistAddress #
 - modifiers: onlyOwner
 - [Prv] antiBot #
 - [Pub] turnOnAntiBot #
 - modifiers: onlyOwner
 - [Pub] excludeFromFee #
 - modifiers: onlyOwner
 - [Pub] includeInFee #
 - modifiers: onlyOwner
 - [Ext] setAllFeePercent #
 - modifiers: onlyOwner
 - [Pub] buyBackUpperLimitAmount
 - [Ext] setBuybackUpperLimit #
 - modifiers: onlyOwner
 - [Ext] setMaxTxPercent #
 - modifiers: onlyOwner
 - [Ext] setMaxWalletPercent #
 - modifiers: onlyOwner

- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] setFeeWallet #
 - modifiers: onlyOwner
- [Ext] setPlayToEarnWallet #
 - modifiers: onlyOwner
- [Ext] afterPreSale #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Prv] reflectFee #
- [Prv] _getValues
- [Prv] getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] takeLiquidity #
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee
- [Prv] approve #
- [Prv] _transfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap
- [Prv] buyBackTokens #
 - modifiers: lockTheSwap
- [Prv] swapTokensForBNB #
- [Prv] swapBNBForTokens #
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] transferStandard #
- [Prv] transferToExcluded #
- [Prv] transferFromExcluded #
- [Prv] _transferBothExcluded #
- [Prv] tokenTransferNoFee #
- [Pub] recoverBEP20 #
 - modifiers: onlyOwner
- (\$) = payable function # = non-constant function

Issues Checking Status

	Issue description	Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
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.	Low issues
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
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.	Passed
19.	Cross-function race conditions.	Passed 0780
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

No high severity issues found.

No medium severity issues found.

- Low Severity Issues
 - 1. Out of gas

Issue:

- The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.
- The function _getCurrentSupply() also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array length is not too big.

Notes:

 There is sending contract balance to dead address instead of real burn, using decreasing total supply.

Owner privileges (In the period when the owner is not renounced)

- Owner can change fees.
- Owner can change the maximum transaction amount and maximum wallet amount.
- Owner can change buyBackUpperLimit.
- Owner can change blacklistTimeout.
- Owner can blacklist addresses.
- Owner can change antiBotEnabled value and cooldownTimerInterval.
- Owner can enable/disable isTradingEnable.
- Owner can change buyBackUpperLimit.
- Owner can exclude from the fee.
- Owner can change fee and playToEarn wallets.
- Owner can withdraw ERC20 tokens.
- Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.



Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

TechRate 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.