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CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS







Audit Passed

07/11/2023



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Audit Summary

This report has been prepared for EMOTTOKEN on the BSC network. Novos provides both client-centered and usercentered 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	0x581a59aE0C40Fb802320CD6a0c878C3eCa22E777	
Name	EMOTTOKEN	
Token Tracker	EMOT	
Decimals	18	
Supply	420,500,000,000,000	
Platform	BSC	
Compiler	v0.8.9+commit.e5eed63a	
Optimization	No with 200 runs	
Other Settings:	default evmVersion	
Language	Solidity	
Codebase	https://bscscan.com/token/0x581a59ae0c40fb802320cd6a0c878c3eca22e77 7#code	
Url	https://emottoken.com/	

Main Contract Assessed

Name	Contract	Live
EMOTTOKEN	0x581a59aE0C40Fb802320CD6a0c878C3eCa22E777	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 EMOTTOKEN 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 0x2CbB490b7aB9213E495047334F5c51561cAFB7B6 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.



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 **EMOTTOKEN** 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	EMOT	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	EMOT	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	-
EMOT Reserves	O EMOT
Reserves, BSC	O -
Liquidity Value	\$0



Novos Statistics

Token (EMOT) Holders Info

Parameter	Result
EMOT Percentage Burnt	O %
EMOT Amount Burnt	0 EMOT
Top 10 Percentage Own	99.78 %
Top 10 Amount Owned	419,580,441,896,638,000 EMOT

EMOTTOKEN Top 10 Token Holders

Source: BscScan.com

0xbe13aa31b995eb8c5f970ea1d393d67344df13a9

0x0747a9da383f2883513a4a7e3676792589e6dc72

0x819422d1f69a2764a5b174373b9087148a8c0c97 0x195b1775c065c4d9e7daf99256ba9e22f335c320

0x83d3e842fe4411fcf9ac9fbc28f77c1013a57dbb

0xeaed594b5926a7d5fbbc61985390baaf936a6b8d (UNCX Network Security : Token Vesting)



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