SMART CONTRACT SECURITY AUDIT

WATCHTOWER

DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or it's Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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ABOUT THE AUDITOR:
Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.
Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.
Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.
In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.

OVERVIEW

Watchtower was commissioned by HuskyX to complete a Smart Contract audit.
The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.
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SMART CONTRACT REVIEW

Contract Created on the 16th May 2021

Contract name	HuskyX
Contract address	0xe0b73f3ba0d46122b86c51ae7b502e9de8db14ed
Total supply	1,000,000,000,000,000
Token ticker	HUSKYX
Decimals	4
Token holders	1
Transactions count	1
Top 5 holders dominance	Not Launched
Tax fee	16%
Total fees	16% ~ BUY / SELL
Contract deployer address	0x61a96f39d3d382AB06B599a89d07403d4aC0A03b
Contract's current owner address	0x61a96f39d3d382AB06B599a89d07403d4aC0A03b

Project Overview

Project Details:

HuskyX is a Rebase Meme coin with a focus on NFT's.
Rebase tokens allow a change in total supply to adjust the token price without affecting holders tokens.

Tokenomics:

Starting Supply: 1,000,000,000,000,000 (1 Quadrillion)
16% Tax for Buys and Sells comprising of:
8% Eth Rewards
2% Development
2% Auto Liquidity
4% Marketing

CONTRACT FUNCTIONS DETAILS

Functions (Public)

This contract has 35 available public functions which the owner can call.
These functions were reviewed and can be viewed on BSC Scan or through a DAPP.

LINK
https://bscscan.com/token/0xe0b73f3ba0d46122b86c51ae7b502e9de8db14ed#writeContract

Function risks identified:

- multiTransfer(function 11) and multiTransfer_fixed(function 12) allows the Owner to transfer tokens from from address without its authorization.

Imported Libraries / Interfaces

- SafeMath
- SafeMathInt
- IBEP20
- Auth
- IDEXFactory
- InterfaceLP
- IDEXRouter
- IDividendDistributor

Overview

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.	Passed
10. Methods execution permissions.	Passed

Issue description	Checking status
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
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

SECURITY ISSUES

High Severity Issues

- **multiTransfer() and multiTransfer_fixed() allows the Owner to transfer tokens from from address without its authorization.** The functions use _basicTransfer() and the allowance is never checked.
- **Owner can start/stop trading:** tradingStatus allows the Owner to start/stop all the transactions. It is highly recommended to set a limit of its usage
- **Rewards process can be exploited:** User's shares are updated only during a transfer. If someone never make a transfer, and a rebase happens, his balance is updated while his shares no. In this way he can get more rewards then the others users.

Low Severity Issues

- **High gas for distribution:**
- distributorGas is set to 500k. It can cause expensive transactions for the user if BNB value increases.

CONCLUSION

Watchtower reviewed HuskyX's deployed and verified contract to conduct this audit. Watchtower is satisfied that the team is operating with integrity however as noted above a couple of functions were found with coding deficiencies which can be used in a malicious manner.

Watchtower Disclaimer:

Please check the disclaimer page and note, this Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or in any way provide financial advice, please do your own research. By reading this report you accept and agree to the disclaimer and understand investments are made at your own risk. ***(https://www.cryptowatchtower.io/)***

Contact Us

@Watchtower_WTW

Watchtower-WTW

Watchtowercrypto