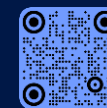




**NOVOS**

## **KYC & AUDIT.**

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



# CERTIFICATE OF COMPLIANCE

Smart Contract Audit by NOVOS



OverHTMOON20

Audit Passed

10/16/2022

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# Audit Summary

This report has been prepared for OverHTMOON2.0 Token on the Heco 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	Result
Address	0xfe630b0b8d2746bc9d8febea79e1f207692cf1b3
Name	OverHTMOON2.0
Token Tracker	OverHTMOON2.0
Decimals	9
Supply	1,000,000,000,000,000
Platform	Heco Chain
Compiler	v0.8.16+commit.07a7930e
Optimization	Yes, 200times
Other Settings:	default evmVersion
Language	Solidity
Codebase	<a href="https://www.hecoinfo.com/en-us/address/0xfe630b0b8d2746bc9d8febea79e1f207692cf1b3?tab=Contract">https://www.hecoinfo.com/en-us/address/0xfe630b0b8d2746bc9d8febea79e1f207692cf1b3?tab=Contract</a>
Url	<a href="https://t.me/OverhtmoonV2">https://t.me/OverhtmoonV2</a>

## Main Contract Assessed

Name	Contract	Live
<b>OverHTMOON2.0</b>	0xfe630b0b8d2746bc9d8febea79e1f207692cf1b3	Yes



# Smart Contract Vulnerability Checks

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





# Smart Contract Vulnerability Checks

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





# Contract Ownership

The contract ownership of OverHTMOON2.0 Token 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 `0x491e511b02503517aa1f81c8523795ee335d68be` which can be viewed from: [HERE](#)

02

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

03

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.

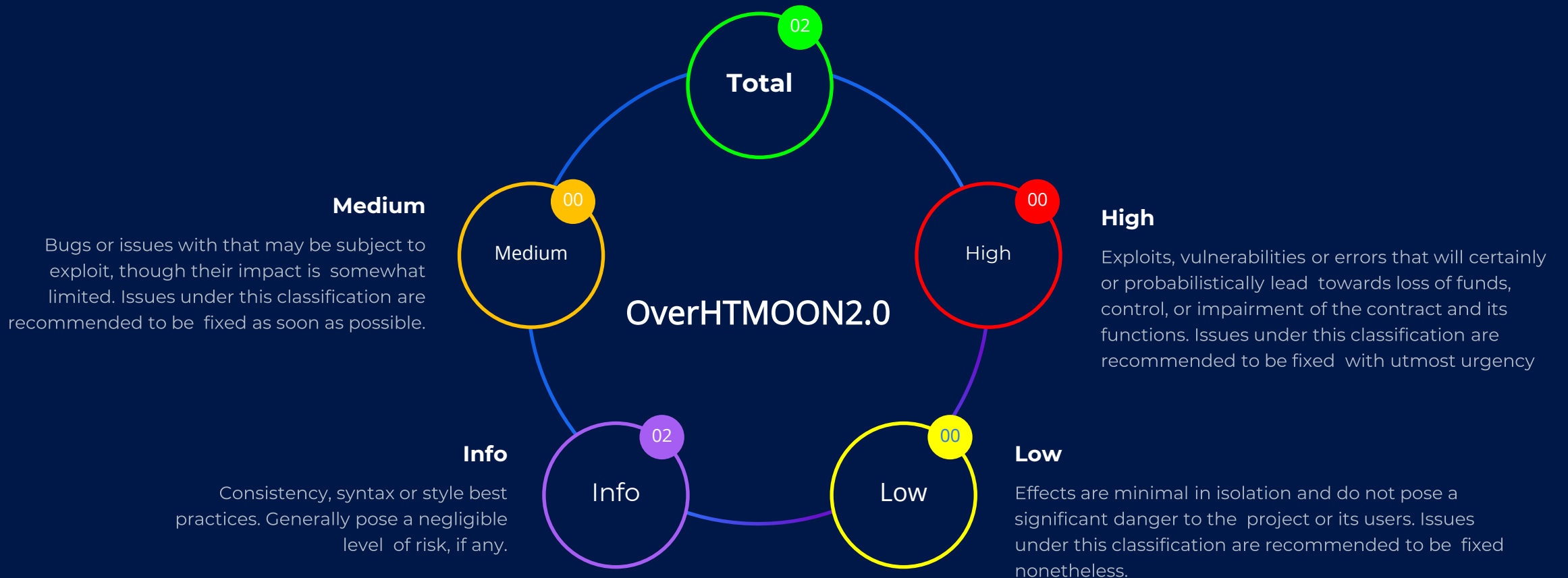


# Technical Findings Summary

## Classification of Issues

### Total

What you should pay attention to



# Findings

Public function that could be declared external



ID	Severity	Contract	Function
01	Informational	OverHTMOON2.0	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	OverHTMOON2.0	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.

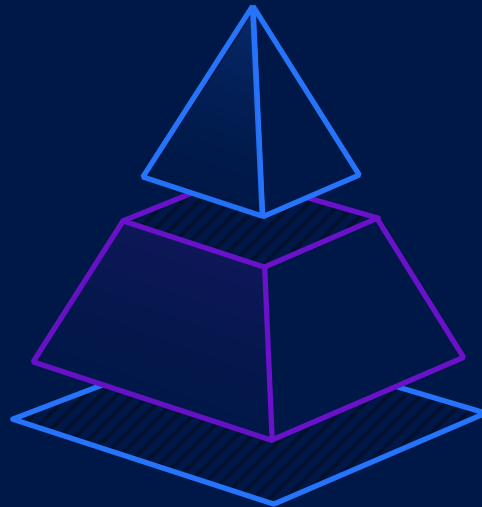


# Privileged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
✓ renounceOwnership	<ul style="list-style-type: none"><li>▪ none</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ transferOwnership	<ul style="list-style-type: none"><li>▪ address newOwner</li></ul>	<ul style="list-style-type: none"><li>▪ <b>public</b></li></ul>
✓ prepareForPartnerOrExchangeListing	<ul style="list-style-type: none"><li>▪ address_partnerOrExchangeAddress</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setWalletBalance	<ul style="list-style-type: none"><li>▪ uint256 _maxWalletBalance</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setMaxBuyTransaction	<ul style="list-style-type: none"><li>▪ uint256 _maxTxn</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setMaxSellTransaction	<ul style="list-style-type: none"><li>▪ uint256 _maxTxn</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ updateBusdDividendToken	<ul style="list-style-type: none"><li>▪ address _newContract</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ updateMarketingWallet	<ul style="list-style-type: none"><li>▪ address _newWallet</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setSwapTokensAtAmount	<ul style="list-style-type: none"><li>▪ uint256 _swapAmount</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setSellTransactionMultiplier	<ul style="list-style-type: none"><li>▪ uint256 _multiplier</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setTradingIsEnabled	<ul style="list-style-type: none"><li>▪ none</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setBusdDividendEnabled	<ul style="list-style-type: none"><li>▪ bool _enabled</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setMarketingEnabled	<ul style="list-style-type: none"><li>▪ bool _enabled</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ setSwapAndLiquifyEnabled	<ul style="list-style-type: none"><li>▪ bool _enabled</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ updatebusdDividendTracker	<ul style="list-style-type: none"><li>▪ address newAddress</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>
✓ updateUniswapV2Router	<ul style="list-style-type: none"><li>▪ address newAddress</li></ul>	<ul style="list-style-type: none"><li>▪ <b>external</b></li></ul>

# Privileged Functions (onlyOwner & Others)

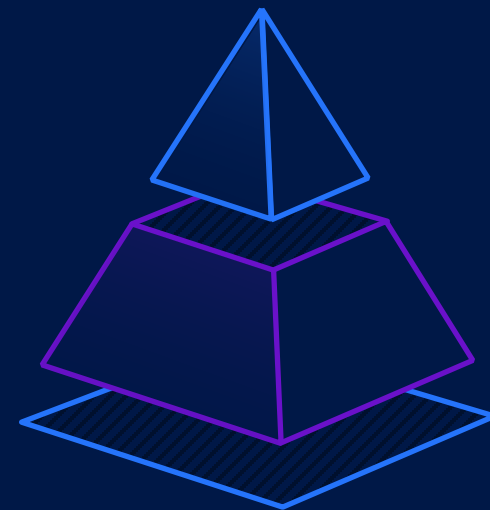
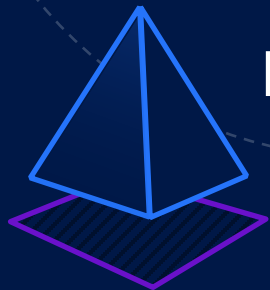
Function Name	Parameters	Visibility
✓ excludeFromFees	▪ address account, bool excluded	▪ <b>public</b>
✓ excludeFromDividend	▪ address account	▪ <b>public</b>
✓ setAutomatedMarketMakerPair	▪ address pair, bool value	▪ <b>external</b>
✓ updateGasForProcessing	▪ uint256 newValue	▪ <b>external</b>
✓ updateMinimumBalanceForDividends	▪ uint256 newMinimumBalance	▪ <b>external</b>
✓ updateClaimWait	▪ uint256 claimWait	▪ <b>external</b>
✓ processDividendTracker	▪ uint256 gas	▪ <b>external</b>





# Statistics

## Liquidity Info



Parameter	Result
Pair Address	0x6078841CC1e5F99d1d58569087988Bd147665Bc7
OverHTMOON2.0 Reserves	317,790,058,346,958.56 OverHTMOON2.0
Reserves, WNT	340.48123737463254 WHT
Liquidity Value	\$ 2,175.68



# Statistics

## Token (OverHTMOON2.0) Holders Info

Parameter	Result
OverHTMOON2.0 Percentage Burnt	3.2 %
OverHTMOON2.0 Amount Burnt	31,627,884,651,962.707 OverHTMOON2.0
Top 10 Percentage Own	57,43 %

Rank	Address	Quantity	Percentage	Value
1	<a href="#">0x6078841cc1e5f99d1d58569087988bd147665bc7</a>	317,790,058,346,958.56	32.13%	\$2,774.497883...
2	<a href="#">0x491e511b02503517aa1f81c8523795ee335d68be</a>	138,171,903,512,938.45	13.97%	\$1,206.323620...
3	<a href="#">0x0000000000000000000000000000000000dead</a>	31,627,884,651,962.707	3.2%	\$276.13040974...
4	<a href="#">0x88079020c9e0fcf78b126b4d5f262282a7e87388</a>	18,401,715,191,583.625	1.86%	\$160.65801465...
5	<a href="#">0x426f4bb05f2d271a37348af30037e28936a7319</a>	13,010,310,062,386.518	1.32%	\$113.58781303...
6	<a href="#">0x4441848cb5aec99a6fe09f151b19e599918d1858</a>	12,629,812,386,286.018	1.28%	\$110.26584001...
7	<a href="#">0x078bba6dbf61237873385f306536d6536c6a611</a>	10,369,417,762,762.367	1.05%	\$90.531238719...
8	<a href="#">0xc9b9623dcd3674ea80f064673ef499160d784225</a>	9,130,180,222,116.416	0.92%	\$79.711951447...
9	<a href="#">0xf6ba7d9696370b4e26bfc4e449c59044a164ed1f</a>	8,547,166,585,166.029	0.86%	\$74.621892588...
10	<a href="#">0x54bff60f9e83bcf4142aae8d1e52b0d822566b3e</a>	8,257,985,708,683.602	0.84%	\$72.097170028...



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