Audit Details

Heroes of the Continent

Blockckain - Binance Smart Chain

Website - HOCGame.app

Auditor's - PapaExchange

PapaExchange
Not Just a Bunch of Dads

Date Issued

Oct. 10th
2022

DISCLAIMER

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PapaExchange LLP presence is to analyze, audit and assess the client's smart contract's code. Each company or project shall be liable for its own security flaws and functionalities.

Scope of Work & Background

The main focus of this report/audit, is to document an accurate assessment of the condition of the smart contract and whether it has any security flaws in the implementation of the contract MoopToken team agreed and provided us with the files that needed to be tested (Through Github, Bscscan, files, etc.). PapaExchange will be focusing on contract issues and functionalities along with the projects claims from smart contract to their website, whitepaper and repository where available, which has been provided by the project.
Code is reviewed manually and with the use of software using industry best practices.

Background

PapaExchange was commissioned by The HOC to perform an audit of smart contract:
● Contract Address 0x19c10f2c110e0ab3407446d06aa36ac29637d677
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.

Developers Token Description

The HOC Coin is a Play2Earn game on BSC network with the goal to create a wonderful fantasy world in Crypto.
Mint – Hunt – Battle – Upgrade – EARN!

Social Media Links

Twitter: **https://twitter.com/HeroesBSC**

Telegram: **https://t.me/HeroesOC**

Facebook: **https://www.facebook.com/HOCp2e**

Discord: **https://discord.com/invite/23F6SDSnG8**

Contracts details

(HOC Contract details for Oct. 10th, 2022)

Contract/Project name: Heroes of the Continent

Description: Gaming Utility and Reward Token

Compiler version: 0.8.9+

Contract address: 0x19c10f2c110e0ab3407446d06aa36ac29637d677

Total supply: 100,000,000

Token ticker: HOC

Decimals: 18

Token holders at time of report: 314

Transaction count at time of report: 3593

Top 100 holders dominance: 95.82%

Contract deployer address: 0xafe6c9185df7769203284ad52c2c921bbdfa0103
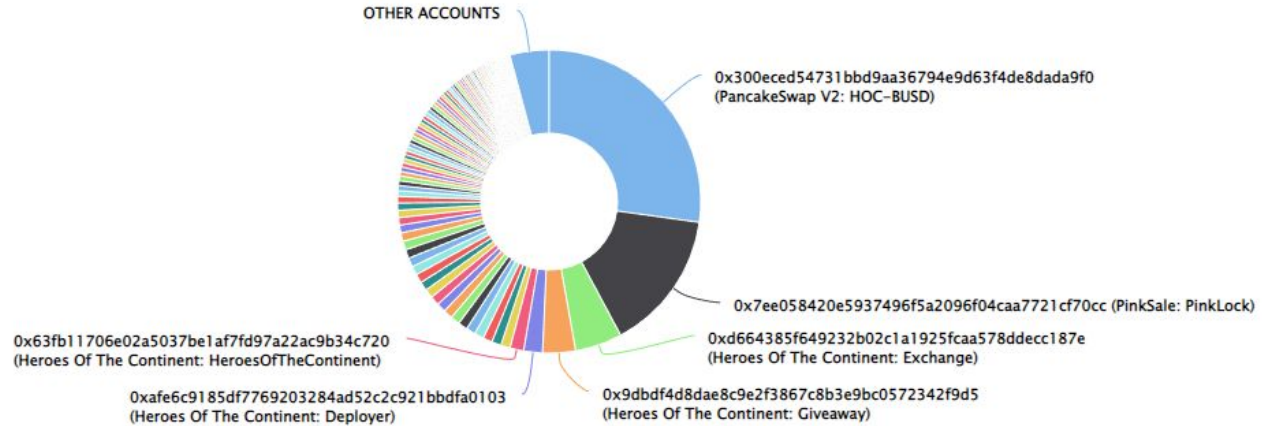**Contract's current owner address:** 0xafe6c9185df7769203284ad52c2c921bbdfa0103

LP Lock: PinksaleV2 2nd January 2023 (Originally Locked for 1 year)

KYC done by FUDDOX

Launch Type Fair

HeroesOfTheContinent Top 100 Token Holders

Source: BscScan.com

OTHER ACCOUNTS

0x300eced54731bbd9aa36794e9d63f4de8dada9f0
(PancakeSwap V2: HOC-BUSD)

0x7ee058420e5937496f5a2096f04caa7721cf70cc (PinkSale: PinkLock)

0x63fb11706e02a5037be1af7fd97a22ac9b34c720
(Heroes Of The Continent: HeroesOfTheContinent)

0xd664385f649232b02c1a1925fcaa578ddecc187e
(Heroes Of The Continent: Exchange)

0xafe6c9185df7769203284ad52c2c921bbdfa0103
(Heroes Of The Continent: Deployer)

0x9dbdf4d8dae8c9e2f3867c8b3e9bc0572342f9d5
(Heroes Of The Continent: Giveaway)

(A total of 95,820,159.16 tokens held by the top 100 accounts from the total supply of 100,000,000.00 token)

HOC LP TOKEN HOLDER

1. 0x7ee058420e5937496F5a2096f04caA7721cF70cc (PinkSale: PinkLock - 100%

Owner Contract write functions details

Owner privileges:

Ownership has <u>NOT</u> been renounced. The owner has privileges and has authority to make some changes now, including owner entitled to set a special address.

<u>Current Fees</u>: • Buy: 5% • Sell: 5% • Owner must keep fees at 5% or lower.

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All Write Functions of Contract that can be adjusted after the contract is deployed.

1. LaunchTrdng
2. TaxTokens
3. Approve
4. DecreaseAllowance
5. DisableTransferDelay
6. ExcludeFromFees

7. ExcludeFromMaxTransaction
8. IncreaseAllowance
9. RemoveLimits
10. RenounceOwnership
11. SetAutomatedMartetMakerPair
12. Transfer

13. TransferFrom
14. UpdateBuyFees
15. UpdateMaxAmount
16. UpdateMaxWalletAmount
17. UpdateSellFees
18. WithdrawStuckEth

SWC Registry: Smart Contract Weakness/Vulnerabilities

SWC-136	Unencrypted Private Data On-Chain	PASSED
SWC-135	Code With No Effects	PASSED
SWC-134	Message call with hardcoded gas amount	PASSED
SWC-133	Hash Collisions with Multiple Variable Length Arguments	PASSED
SWC-132	Unexpected Ether balance	PASSED
SWC-131	Presence of unused variables	PASSED
SWC-130	Right-To-Left-Override control character (U+202E)	PASSED
SWC-129	Typographical Error	PASSED

SWC-128	DoS With Block Gas Limit	PASSED
SWC-127	Arbitrary Jump with Function Type Variable	PASSED
SWC-126	Insufficient Gas Griefing	PASSED
SWC-125	Incorrect Inheritance Order	PASSED
SWC-124	Write to Arbitrary Storage Location	PASSED
SWC-123	Requirement Violation	PASSED
SWC-122	Lack of Proper Signature Verification	PASSED
SWC-119	Shadowing State Variables	PASSED

SWC-118	Incorrect Constructor Name	PASSED
SWC-120	Weak Sources of Randomness from Chain Attributes	LOW ISSUE
SWC-117	Signature Malleability	PASSED
SWC-116	Block values as a proxy for time	PASSED
SWC-115	Authorization through tx.origin	LOW ISSUE
SWC-114	Transaction Order Dependence	PASSED
SWC-121	Missing Protection against Signature Replay Attacks	PASSED
SWC-113	DoS with Failed Call	PASSED

[SWC-112](#)	Delegatecall to Untrusted Callee	PASSED
[SWC-111](#)	Use of Deprecated Solidity Functions	PASSED
[SWC-110](#)	Assert Violation	PASSED
[SWC-109](#)	Uninitialized Storage Pointer	PASSED
[SWC-108](#)	State Variable Default Visibility	PASSED
[SWC-107](#)	Reentrancy	PASSED
[SWC-106](#)	Unprotected SELFDESTRUCT Instruction	PASSED
[SWC-105](#)	Unprotected Ether Withdrawal	PASSED

[SWC-104](#)	Unchecked Call Return Value	PASSED
[SWC-103](#)	Floating Pragma	PASSED
[SWC-102](#)	Outdated Compiler Version	PASSED
[SWC-101](#)	Integer Overflow and Underflow	PASSED

MythX passing

Issue Checking

Manual code review is satisfactory.

CLOSING NOTES

Whilst there are limitless ownable callable functions that have the potential to be dangerous, they are not overtly so. Trust in the team would mitigate many of these risks. Please make sure you do your own research. If in doubt please contact the project team.

Always make sure to inspect all values and variables.
This includes, but is not limited to: • Ownership • Proper Ownership Renouncement (if any) • Taxes • Transaction/Wallet Limits • Token Distributions • Timelocks • Liquidity Locks • Any other owner-adjustable settings or variables.

OVERALL ASSESSMENT
SATISFACTORY