

HEG NINJA AUDITS



Security Assessment

Happy Exchange Token

April 3, 2022

Table of Contents

1 Audit Summary

2 Project Overview

2.1 Token Summary

2.2 Main Contract Assessed

3 Smart Contract Vulnerability Checks

3.1 Mint Check

3.2 Fees Check

3.3 MaxTx Check

3.4 Pause Trade Check

4 Contract Ownership

5 Liquidity Ownership

6 Important Notes To The Users

7 Social Media Check(Informational)

8 Disclaimer

Audit Summary

This report has been prepared for Happy Exchange Token on the Binance Smart Chain network. CFGNINJA 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:

- 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.

Project Overview

Token Summary

Parameter	Result
Address	0xAE01c9404FB7D6588570e7537BA886eB747917B
Name	Happy Exchange
Token Tracker	Happy Exchange (HEX)
Decimals	9
Supply	100,000,000
Platform	Binance Smart Chain
compiler	v0.8.10+commit.fc410830
Contract Name	CoinToken
Optimization	Yes with 200 runs
LicenseType	Unlicense
Language	Solidity
Codebase	https://www.bscscan.com/ address/0x2272dA007d50736e89e2A61e3Aa29E82a0af7509
Url	https://happy-ex.com/

Main Contract Assessed

Contract Name

Name	Contract	Live
Happy Exchange	0xAE01c9404FB7D6588570e7537BA886eB747917B	Yes

TestNet Contract Assessed

Contract Name

Name	Contract	Live
Happy Exchange	0xAE01c9404FB7D6588570e7537BA886eB747917B	Yes

Solidity Code Provided

SolID	FileNameMD5	FileName
CoinToken	C4410B4EE756F135E70997AEADDFFDDFAD	CoinToken.sol



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
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
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

Vulnerability	Automatic Scan	Manual Scan	Result
Weak Sources of Randomness from Chain Attributes	Complete	Complete	Low / No Risk

Mint Check

The Project Owners of Happy Exchange does not have a mint function in the contract,
owner cannot mint tokens after initial deploy

..

The Project has a Total Supply of 100,000,000 and cannot mint any more than the Max Supply.



Owner can't mint new coins



Fees Check

The Project Owners of Happy Exchange has the ability to set fees to 100%
We Recommend the team to create a new contract with fees restrictions to avoid any
problems, as alternative the team can use multi signature wallet to ensure the project is
safe from a potential fee increase.



MaxTx Check

The Project Owners of Happy Exchange can set max tx amount.

The ability to set MaxTx can be used as bad actor, this can limit the ability of investors to sale their tokens at any given time if is set too low..

We recommend the project to set MaxTx to Total Supply or simiar to avoid swap or transfer from failures



Pause Trade Check

The Project Owners of Happy Exchange Owner can pause trading but he can't move tokens (Owner can't pause trading)

The Team has done a great job to avoid stop trading, and investors has the ability to trade at any given time without any problems

Pause Trade Notes:

Auditor Notes:

Project Owner Notes:



Contract Ownership

The contract ownership of Happy Exchange 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.

The current owner is the address 0xd98ca363ecae66cf203bc7e9888b0be7c7eb782a which can be viewed from:
[HERE](#)

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.

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.

We recommend the team to use a Multisignature Wallet if contract is not going to be renounced, this will give the ability to the team to have more control over the contract.

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 16517926



KYC Information

The Project Owners of Happy Exchange is not KYC. .

The project owner has not KYC with our team during the time of the audit. .

We recommend the team to do at least one KYC with either Pinksale or with us, they can do this at any time and we can update the audit with the KYC block or link..

KYC Information Notes:

Auditor Notes: Auditor asked project owner if there was any plans to KYC.

Project Owner Notes: Project Owner, KYC in progress by pinksale



Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
lock	(uint256 time)	public
excludeFromFee	address account	public
includeInFee	address account	public
setTaxFee	(uint256 taxFee)	external
setBuybackFee	(uint256 _buybackFee)	external
setMaxTxAmount	(uint256 maxTxAmount)	external
setMarketingFee	(uint256 _marketingFee)	external
setNumTokensSellToAddToLiquidity	(uint256 _minimumTokensBeforeSwap)	external
setBuybackUpperLimit	(uint256 buyBackLimit)	external
setMarketingAddress	(address _marketingAddress)	external
setSwapAndLiquifyEnabled	(bool _enabled)	public
setBuyBackEnabled	(bool _enabled)	public
presale	(bool _presale)	external

Important Notes To The Users:

- The team has not provided a KYC Link during the time of assessment and can be found in the Audit.
- No mint function found, owner cannot mint tokens after initial deploy.
- Owner can change fees up to 100%.
- Owner can set max tx amount.
- Owner can't pause trading.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.
- The following contract is a cointool.app generated contract.
- cointool.app also do an assessment of it's tokens and we have validated it.
- You can review their audit in the following link <https://cointool.app/audit/contract?chainId=56&address=0x2272dA007d50736e89e2A61e3Aa29E82a0af7509> .

Audit Passed



Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/HappyExOfficial	Pass
Instagram		NA
Website	https://happy-ex.com/	Pass
Telegram	https://t.me/happyexchangeofficial	Pass

We recommend to have 3 or more social media sources including a completed working websites.

Social Media Information Notes:

Auditor Notes: undefined

Project Owner Notes:



Disclaimer

CFGNINJA has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or depreciation of technologies.

All information provided in this report does not constitute financial or investment advice, nor should it be used to signal that any persons reading this report should invest their funds without sufficient individual due diligence regardless of the findings presented in this report. Information is provided 'as is', and CFGNINJA is under no covenant to the completeness, accuracy or solidity of the contracts audited. In no event will CFGNINJA or its partners, employees, agents or parties related to the provision of this audit report be liable to any parties for, or lack thereof, decisions and/or actions with regards to the information provided in this audit report.

The assessment services provided by CFGNINJA is subject to dependencies and under continuing development. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives, false negatives, and other unpredictable results. The services may access, and depend upon, multiple layers of third-parties.

