

PapaExchange AUDITS



The Bear Token



Audit details:

Prepared for: The Bear Token

Blockchain: Binance Smart Chain

Project website: <https://www.thebeartoken.com/>

Authors: PapaExchange Audit team

Date: 07/08/2022

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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 scope 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.

Bear Token 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 Bear Token to perform an audit of smart contract:

- **Contract Address 0xd1421f138fd1bca936c1c4b2ccc80fc133372e77**

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.

Token Description from Dev’s

The Bear Token is a Binance Smart Chain rewards token designed to grow your money through the Crypto slump.

Social Media Links

Telegram: <https://t.me/thebeartoken>

Twitter: <https://twitter.com/TheBearToken>

Facebook: N/A

Discord: N/A

Contracts details

Token contract details for 07/08/2022.

Contract/Project name:	Bear Token
Description	Standard Reward Token
Compiler version:	0.8.4
Contract address:	0xd1421f138Fd1bCa936C1c4b2cCc80Fc133372e77
Total supply:	100,000,000
Token ticker:	BEAR
Decimals:	9
Token holders at time of report:	298
Transactions count at time of report:	8,432
Top 100 holders dominance:	99.96%
Contract deployer address:	0xc414f2d604eb7B6c5C1dA41f80Ca0d7C6fA03B6a
Contract’s current owner address:	0xc414f2d604eb7B6c5C1dA41f80Ca0d7C6fA03B6a
LP LOCK	Mudra 12 months
Dev’s KYC	Yes Fuddox
Launch Type	Fair launch

Bear Token top 100 token distribution



Token name LP token holders

- 1. 0xae7e6cabad8d80f0b4e1c4dde2a5db7201ef1252 92.03% (Mudra Locked)
- 2. 0xc414f2d604eb7b6c5c1da41f80ca0d7c6fa03b6a 7.73%
- 3. 0x6c51eaae8cb42039b2e54b0bab8f0d849fdb9a0b 0.17%
- 4. 0x0ed943ce24baebf257488771759f9bf482c39706 0.06%

Contract write functions details

Owner privileges:

Ownership has not been renounced, the owner has privileges, and has authority to make any changes now.

Current Fees: • Buy: 6% • Sell: 12% • Owner can not change fees above 25% (Papa’s recommended maximum)

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

- 1. addBotWallet
- 2. addMaxWalletExempt
- 3. addTaxExempt
- 4. Approve
- 5. changeBurnOnBuy
- 6. changeBurnOnSell
- 7. changeLiqOnBuy
- 8. changeLiqOnSell
- 9. changeLiqSwapAt
- 10. changeLiqWallet
- 11. changeMaxTxPercent

- 12. changeMaxWalletSize
- 13. changeSwapOnBuy
- 14. changeSwapOnSell
- 15. changeTaxSwapAt
- 16. changeTaxWallet
- 17. changeTaxesOnBuy
- 18. changeTaxesOnSell
- 19. changeTreasuryTaxOnBuy
- 20. changeTreasuryTaxOnSell
- 21. removeBotWallet
- 22. removeMaxWalletExempt
- 23. removeTaxExempt
- 24. renounceOwnership
- 25. Transfer
- 26. transferFrom
- 27. transferOwnership
- 28. withdrawContractBNB
- 29. withdrawContractTokens

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	PASSED
SWC-117	Signature Malleability	PASSED
SWC-116	Block values as a proxy for time	PASSED
SWC-115	Authorization through tx.origin	PASSED
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	LOW ISSUE
SWC-102	Outdated Compiler Version	PASSED
SWC-101	Integer Overflow and Underflow	PASSED

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.

Always make sure to always 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

PapaExchange

Not just a bunch of Dads

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