



■ Audit Request

14 June 2023

14 June 2023

K Revision At

No Revision

Release At

15 June 2023



<u>OVERVIEW</u>

This audit report has been prepared by **SphinxShield** for **Bi Xi Token**. The purpose of this audit is to provide a comprehensive review of the project's source code security. The evaluation aims to identify potential vulnerabilities and risks, ensuring the project's solidity codebase adheres to best practices and industry standards.

SphinxShield's objective is to assess the security of the project's smart contract, mitigating potential security breaches and protecting investors' interests. The audit covers critical aspects, including the thorough analysis of the contract's source code, ownership structure, tokenomics, and compliance with security measures. Additionally, the assessment extends to external dependencies and potential risks associated with the smart contract implementation.

This audit report serves as a valuable resource for investors, enabling them to make well-informed decisions based on the project's security posture. However, it is essential to note that while **SphinxShield's** evaluation provides insights into the project's source code security, it does not guarantee or reflect the project's ultimate outcome and goals.

"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal."

- SphinxShield's Team -



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Bi Xi Token



PROJECT DESCRIPTION According to their whitepaper or website: Tradition is that rubbing Bi Xi will bring you good luck. The dragon turtle Bi Xi is one of 9 sons of the dragon king and is famous for his strength and ability to carry great burdens.

No presale or fundraising events were conducted. DEX listed on **13 June 2023** Category: **Meme Token**



CONTRACT INFORMATIONS

INDICATIOR	VALUE
Token Name	BIXI
Token Symbol	BIXI
Total Supply	777,777
Already Listed On Dex	Already Listed
Dex Listed	PancakeV2
Open Source	1
Price	0.01741573 (0.987%)
Volume 24H	\$3089.55
Liquidity	\$1,975 (8 BNB)
Txn Count	111 (-0.57%)
Market Cap	\$13,545 (0.000%)

SECURITY INFORMATIONS

INDICATIOR	VALUE
Honeypot	Not Detected
Buy Fees	9.00%
Sell Fees	8.99%
Holder Count	117



SphinxShield's Contract Review Process

At SphinxShield, our contract review process follows a meticulous approach, leveraging a combination of industry-leading tools and expert analysis. We pay special attention to the following key areas:

Comprehensive Vulnerability Testing:

- We employ both automated and manual testing techniques to identify common and uncommon vulnerabilities in the smart contracts.
- Tools such as Hardhat, Slither, and OpenZeppelin are utilized to detect potential security flaws and ensure the contracts
 are resilient against attacks.

Compliance with Best Practices and Standards:

- Our team assesses the codebase to ensure it adheres to current best practices and industry standards for solidity development.
- We utilize tools like Solidity Compile to verify that the contract code follows recommended coding conventions and style
 guidelines.

Alignment with Client's Specifications:

- We carefully review the contract logic to ensure it aligns with the specifications and intentions of the client.
- Our experts analyze the contract's functionality and verify that it meets the desired requirements without any unintended behaviors.

Industry Benchmarking:

- We conduct a thorough cross-referencing analysis, comparing the contract structure and implementation against similar smart contracts developed by industry leaders.
- This benchmarking helps us identify any deviations or potential issues that may arise from differences in contract design or implementation choices.

Manual Codebase Review:

- Our team of industry experts performs a line-by-line manual review of the entire contract codebase.
- This meticulous review ensures that no vulnerabilities or flaws go unnoticed, providing an additional layer of scrutiny beyond automated tools.

AI-Assisted Review:

- We leverage advanced AI systems to augment our review process.
- Al algorithms analyze the contract code and provide insights, identifying potential vulnerabilities and recommending improvements.

By combining these rigorous review practices and leveraging cutting-edge tools such as Hardhat, Slither, OpenZeppelin, Solidity Compile, and Al-assisted analysis, SphinxShield delivers a comprehensive assessment of smart contract security. Our approach helps identify and mitigate potential risks, ensuring the solidity codebase is robust, secure, and aligned with industry best practices.



HONEYPOT & RUGPULL SAFETY

Can Take Back Ownership	✓ Not Detected
Owner Change Balance	✓ Not Detected
Blacklist	Detected
Modify Fees	Detected
Personal Modify Fees	✓ Not Detected
Proxy	✓ Not Detected
Whitelisted	✓ Not Detected
Anti Whale	Detected
Trading Cooldown	Detected
Transfer Pausable	Detected
Cannot Sell All	✓ Not Detected
Cannot Buy	✓ Not Detected
Self Destruct	✓ Not Detected
External Call	✓ Not Detected
Hidden Owner	Detected
Mint	✓ Not Detected



THREAT LEVELS

At SphinxShield, we categorize vulnerabilities and issues discovered during our smart contract audits into the following threat levels:

High Risk:

- Issues classified as high risk are critical to the smart contract's performance and functionality.
- These vulnerabilities pose significant risks and should be addressed and resolved before deploying the contract to a live environment.
- Failure to mitigate high-risk issues can potentially lead to severe consequences and financial losses.

Medium Risk:

- Issues categorized as medium risk are also critical to the smart contract's performance and functionality.
- These vulnerabilities, although not as severe as high-risk issues, still require immediate attention and remediation before deploying the contract.
- Ignoring medium-risk issues may expose the contract to potential attacks or operational disruptions.

Low Risk:

- Issues classified as low risk are minor details and warnings that do not pose a significant threat to the smart contract's security or functionality.
- While low-risk issues may not require immediate fixing, they are still worth considering for improvements and best practices.

• Informational:

- The informational level is focused on providing suggestions for enhancing the efficacy or security of certain features in the contract.
- These recommendations aim to improve the overall robustness and risk-free factor of the contract, even though they do not directly indicate vulnerabilities.

By categorizing vulnerabilities and issues into these threat levels, SphinxShield ensures that critical security concerns are prioritized and addressed promptly. Our experts thoroughly examine the codebase for known vulnerabilities, logical flaws, and access control issues, protecting projects from potential financial damages resulting from malicious exploits.



FOUND THREATS



No high risk-level threats found in this contract

▲ Medium Risk

No medium risk-level threats found in this contract

Low Risk

No low risk-level threats found in this contract

Informational

Detected cyclomatic-complexity

Impact Informational

Sol Scanning Line:

BIXI._transferFrom(address,address,uint256) (#542-593) has a high cyclomatic complexity (12).

Recommendation:

N/A

Informational

Detected solc-version

Impact Informational

Sol Scanning Line:

Pragma version 0.8.7 (#5) allows old versions solc-0.8.7 is not recommended for deployment

Recommendation:

solc frequently releases new compiler versions. Using an old version prevents access to new Solidity security checks. We also recommend avoiding complex pragma statement.



Informational

Detected

function-init-state

Impact

Informational

Sol Scanning Line:

BIXI._maxWalletToken (#389) is set pre-construction with a non-constant function or state variable:

- (_totalSupply * 100) / 10000

BIXI._maxBuyTxAmount (#387) is set pre-construction with a non-constant function or state variable:

- _totalSupply * 200 / 10000

BIXI._maxSellTxAmount (#388) is set pre-construction with a non-constant function or state variable:

-_totalSupply * 200 / 10000

BIXI.swapThreshold (#433) is set pre-construction with a non-constant function or state variable:

- _totalSupply * 45 / 10000

Recommendation:

Detects the immediate initialization of state variables through function calls that are not pure/constant, or that use non-constant state variable.



Detected

low-level-calls

Impact

Informational

Sol Scanning Line:

Low level call in BIXI.swapBack() (#740-783):

- (successMarketing) = address(marketingFeeReceiver).call{gas: 30000,value: amountBNBMarketing}() (#767)

- (successDev) = address(DEV).call{gas: 30000,value: amountBNBDev}() (#768)

Recommendation:

Avoid low-level calls. Check the call success. If the call is meant for a contract, check for code existence.

Informational

Detected

naming-convention

Impact

Informational

Sol Scanning Line:

Variable BIXI._maxSellTxAmount (#388) is not in mixedCase

Parameter BIXI.setTargetLiquidity(uint256,uint256)._denominator (#936) is not in mixedCase

Variable BIXI._allowances (#393) is not in mixedCase

Parameter BIXI.tradingStatus(bool)._status (#712) is not in mixedCase

Function IDEXRouter.WETH() (#141) is not in mixedCase

Parameter BIXI.enableGREED(uint256)._seconds (#718) is not in mixedCase



Parameter BIXI.setSellFees(uint256,uin

Parameter BIXI.setBuyFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256)._buybackFeeBuy (#902) is not in mixedCase

Variable BIXI.DEV (#372) is not in mixedCase

Parameter BIXI.setBuyFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256)._feeDenominator (#902) is not in mixedCase

Parameter BIXI.setTargetLiquidity(uint256,uint256)._target (#936) is not in mixedCase

Parameter BIXI.setAutoBuybackSettings(bool,uint256,uint256,uint256,bool)._period (#837) is not in mixedCase

Parameter BIXI.setDistributionCriteria(uint256,uint256)._minDistribution (#948) is not in mixedCase

Parameter BIXI.setBuyFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256)._reflectionFeeBuy (#902) is not in mixedCase

Parameter BIXI.setBuyFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256)._devFeeBuy (#902) is not in mixedCase

Parameter BIXI.cooldownEnabled(bool,uint8)._interval (#729) is not in mixedCase

Parameter BIXI.setBuyFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256)._marketingFeeBuy (#902) is not in mixedCase

Parameter BIXI.setFeeReceivers(address,address)._autoLiquidityReceiver (#924) is not in mixedCase Constant BIXI._symbol (#380) is not in UPPER_CASE_WITH_UNDERSCORES

Parameter BIXI.setSellFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256)._feeDenominator (#913) is not in mixedCase

Variable BIXI.ZERO (#371) is not in mixedCase

Parameter BIXI.setSwapBackSettings(bool,uint256)._enabled (#930) is not in mixedCase

Parameter BIXI.setDistributionCriteria(uint256,uint256)._minPeriod (#948) is not in mixedCase

Constant BIXI._decimals (#381) is not in UPPER_CASE_WITH_UNDERSCORES

Parameter BIXI.setSellFees(uint256,uin

Variable BIXI._maxWalletToken (#389) is not in mixedCase

Parameter BIXI.blacklistAddress(address,bool)._value (#735) is not in mixedCase

Variable DividendDistributor.BUSD (#208) is not in mixedCase

Variable BIXI.GREEDTriggeredAt (#426) is not in mixedCase

Variable BIXI.GREEDDuration (#427) is not in mixedCase

Parameter BIXI.setAutoBuybackSettings(bool,uint256,uint256,uint256,bool)._cap (#837) is not in mixedCase Parameter BIXI.setSellFees(uint256,uint256,uint256,uint256,uint256,uint256,uint256)._devFeeSell (#913) is not in

Variable BIXI.BUSD (#368) is not in mixedCase

mixedCase

Parameter BIXI.setFeeReceivers(address,address)._marketingFeeReceiver (#924) is not in mixedCase

Parameter BIXI.setSwapBackSettings(bool,uint256)._amount (#930) is not in mixedCase

Parameter BIXI.setAutoBuybackSettings(bool,uint256,uint256,uint256,bool)._amount (#837) is not in mixedCase

Parameter BIXI.takeFee(address,uint256,bool,bool).GREEDMode (#681) is not in mixedCase

Variable BIXI.WBNB (#369) is not in mixedCase

Parameter BIXI.blacklistAddress(address,bool)._address (#735) is not in mixedCase

Parameter DividendDistributor.setDistributionCriteria(uint256,uint256)._minDistribution (#247) is not in mixedCase

Variable BIXI.DEAD (#370) is not in mixedCase

 $Parameter\ Dividend Distributor. set Distribution Criteria (uint 256, uint 256)._min Period\ (\#247)\ is\ not\ in\ mixed Case$

 $Parameter\ BIXI.cooldown Enabled (bool, uint 8)._status\ (\#729)\ is\ not\ in\ mixed Case$

Variable BIXI._balances (#392) is not in mixedCase



Parameter BIXI.setAutoBuybackSettings(bool,uint256,uint256,uint256,bool)._enabled (#837) is not in mixedCase

Parameter BIXI.setSellFees(uint256,uin

Variable BIXI._totalSupply (#384) is not in mixedCase

Parameter BIXI.setBuyFees(uint256,uint

Variable DividendDistributor._token (#199) is not in mixedCase

Variable BIXI._maxBuyTxAmount (#387) is not in mixedCase

Constant BIXI._name (#379) is not in UPPER_CASE_WITH_UNDERSCORES

Variable DividendDistributor.WBNB (#209) is not in mixedCase

Parameter BIXI.setSellFees(uint256,uin

Parameter BIXI.setAutoBuybackSettings(bool,uint256,uint256,uint256,bool)._autoBuybackMultiplier (#837) is not in mixedCase

Recommendation:

Follow the Solidity naming convention.



Detected

unused-state

Impact

Informational

Sol Scanning Line:

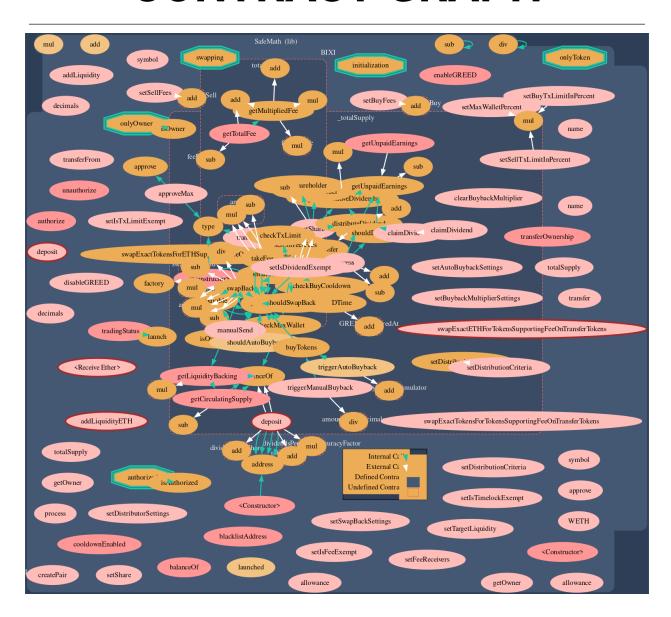
BIXI.BUSD (#368) is never used in BIXI (#364-986)

Recommendation:

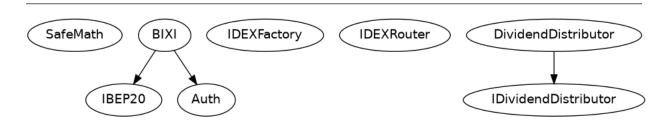
Remove unused state variables.



CONTRACT GRAPH



CONTRACT INHERITANCE





THE TEAM

▲ The team hasn't passed any KYC with SphinxShield

KYC INFORMATION



We encourage the team to undergo a KYC process with SphinxShield to enhance trust and transparency within the community. Please note that our analysis does not consider the KYC status of other companies.



WEBSITE

Website URL

https://bixitoken.xyz/

Domain Registrar

Hostinger, UAB

Domain Expiration

13 June 2024

Security Tests

Passed. SSL certificate present.

DESIGN

Sleek and visually appealing single-page design incorporating a well-suited color scheme and captivating graphics.

CONTENT

The information provided may require further refinement to effectively convey the product's purpose to new investors, as some grammar errors are present.

Whitepaper

The project lacks a whitepaper, therefore it does not offer a comprehensive document providing clear explanations and insightful details.

Roadmap

The project does not provide a roadmap, thus lacking specific goals and timeframes for its development and milestones.

Mobile-Friendly?

YES

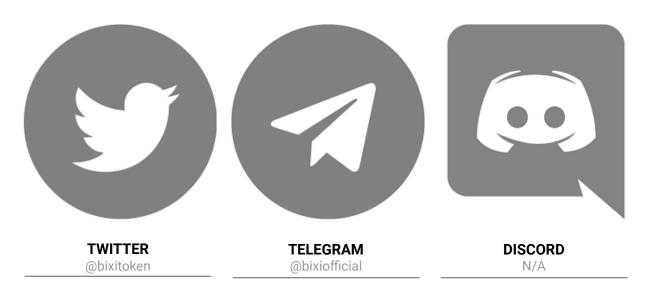




SOCIAL MEDIA & ONLINE PRESENCE

ANALYSIS

The project's social media pages demonstrate active engagement.



- 39 Followers
- Active

- 3420 Subscribers
- Active team



ABOUT US



Security Audits | KYC | SAFU
Bug Bounty Campaigns
Vulnerability Scanning
Community-Driven Security
Secure Smart Contract Development
Blockchain Security Consulting

We are a dynamic and fast-growing crypto security agency, specializing in audits, KYCs (Know Your Customer), and consulting services. Our expertise is trusted by some of the most prominent names in the crypto industry.

As a trusted partner to leading crypto projects, we prioritize security and transparency, ensuring that our clients' platforms are robust and protected from potential threats.

Our team of experts excels in conducting thorough audits, scrutinizing code, and assessing smart contracts to identify any vulnerabilities or weaknesses. We provide actionable recommendations to enhance security and mitigate risks.

Partner with our growing crypto security agency to fortify your project's defenses, achieve compliance, and propel your growth in the crypto industry.

Strengthen your crypto project. Hire us now at https://sphinxshield.com/

FIND US ONLINE





DISCLAIMER

The following audit report presents findings based on our assessment of the project at the time of analysis. It covers cybersecurity vulnerabilities, smart contract frameworks, algorithms, and relevant information provided by the project team. While we strive for accuracy and thoroughness, it's important to note that this report is not exhaustive and should not be the sole basis for decision-making.

We strongly advise readers to review the entire report to gain a comprehensive understanding of our analysis. Furthermore, please be aware of the following:

- Independent Assessment: This report represents our independent assessment and does
 not constitute financial or investment advice. It is essential to conduct your own
 research and seek professional advice before making any investment decisions.
- 2. Limited Scope: Our analysis is based on the information made available to us at the time of the audit. We do not guarantee the absence of undisclosed vulnerabilities or future developments that may impact the project's security.
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