



Building the Futuristic **Blockchain Ecosystem**

SECURITY AUDIT REPORT

xAI

TOKEN OVERVIEW

Risk Findings

Severity	Found
● High	1
● Medium	0
● Low	0
● Informational	0

Centralization Risks

Owner Privileges	Description
● Can Owner Set Taxes >25% ?	Not Detected
● Owner needs to enable trading ?	Yes, owner needs to enable trades
● Can Owner Disable Trades ?	Not Detected
● Can Owner Mint ?	Not Detected
● Can Owner Blacklist ?	Not Detected
● Can Owner set Max Wallet amount ?	Not Detected
● Can Owner Set Max TX amount ?	Not Detected

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OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Audit Result	Passed With High Risk
KYC Verification	-
Audit Date	16 July 2023

CONTRACT DETAILS

Token Name: xAI

Symbol: xAI

Network: Binance Smart Chain

Language: Solidity

Contract Address:

0x2A23f87954277dd8eAe84c706d3879c9880B08E4

Total Supply: 1,000,000,000,000

Owner's Wallet:

0x9951708527E2E028Ab18951e42Aee8395bF5f830

Deployer's Wallet:

0x9951708527E2E028Ab18951e42Aee8395bF5f830

Testnet.

<https://testnet.bscscan.com/token/0x91f49a7D8fF884Db30360ea1fbB8aC73bF80A4A0>

AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat

VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed

RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warnings that can remain unfixed.

Informational

Issues on this level are minor details and warnings that can remain unfixed.

INHERITANCE TREES



FUNCTION DETAILS

```

| Contract |      Type      |      Bases      |      |      | | |
|---|---|---|---|---|---|---|
| L | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
|||||
| **Context** | Implementation | |||
| L | _msgSender | Internal | 🔒 | ||
| L | _msgData | Internal | 🔒 | ||
|||||
| **Ownable** | Implementation | Context |||
| L | <Constructor> | Public | ! | ● | NO | ! |
| L | owner | Public | ! | | NO | ! |
| L | renounceOwnership | Public | ! | ● | onlyOwner |
| L | transferOwnership | Public | ! | ● | onlyOwner |
| L | _transferOwnership | Internal | 🔒 | ● | ||
|||||
| **SafeMath** | Library | |||
| L | add | Internal | 🔒 | ||
| L | sub | Internal | 🔒 | ||
| L | sub | Internal | 🔒 | ||
| L | mul | Internal | 🔒 | ||
| L | div | Internal | 🔒 | ||
| L | div | Internal | 🔒 | ||
| L | mod | Internal | 🔒 | ||
| L | mod | Internal | 🔒 | ||
|||||
| **SafeMathInt** | Library | |||
| L | mul | Internal | 🔒 | ||
| L | div | Internal | 🔒 | ||
| L | sub | Internal | 🔒 | ||
| L | add | Internal | 🔒 | ||
| L | abs | Internal | 🔒 | ||
| L | toUint256Safe | Internal | 🔒 | ||
|||||
| **SafeMathUint** | Library | |||
| L | toInt256Safe | Internal | 🔒 | ||
|||||
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External | ! | | NO | ! |
| L | feeToSetter | External | ! | | NO | ! |
| L | getPair | External | ! | | NO | ! |
| L | allPairs | External | ! | | NO | ! |
| L | allPairsLength | External | ! | | NO | ! |
| L | createPair | External | ! | ● | NO | ! |
| L | setFeeTo | External | ! | ● | NO | ! |
| L | setFeeToSetter | External | ! | ● | NO | ! |
|||||
| **IUniswapV2Pair** | Interface | |||

```

FUNCTION DETAILS

```

L | name | External ! | [NO ! |
L | symbol | External ! | [NO ! |
L | decimals | External ! | [NO ! |
L | totalSupply | External ! | [NO ! |
L | balanceOf | External ! | [NO ! |
L | allowance | External ! | [NO ! |
L | approve | External ! | ● [NO ! |
L | transfer | External ! | ● [NO ! |
L | transferFrom | External ! | ● [NO ! |
L | DOMAIN_SEPARATOR | External ! | [NO ! |
L | PERMIT_TYPEHASH | External ! | [NO ! |
L | nonces | External ! | [NO ! |
L | permit | External ! | ● [NO ! |
L | MINIMUM_LIQUIDITY | External ! | [NO ! |
L | factory | External ! | [NO ! |
L | token0 | External ! | [NO ! |
L | token1 | External ! | [NO ! |
L | getReserves | External ! | [NO ! |
L | price0CumulativeLast | External ! | [NO ! |
L | price1CumulativeLast | External ! | [NO ! |
L | kLast | External ! | [NO ! |
L | mint | External ! | ● [NO ! |
L | burn | External ! | ● [NO ! |
L | swap | External ! | ● [NO ! |
L | skim | External ! | ● [NO ! |
L | sync | External ! | ● [NO ! |
L | initialize | External ! | ● [NO ! |
|||||
L | **IUniswapV2Router01** | Interface | |||
L | factory | External ! | [NO ! |
L | WETH | External ! | [NO ! |
L | addLiquidity | External ! | ● [NO ! |
L | addLiquidityETH | External ! | 🟢 [NO ! |
L | removeLiquidity | External ! | ● [NO ! |
L | removeLiquidityETH | External ! | ● [NO ! |
L | removeLiquidityWithPermit | External ! | ● [NO ! |
L | removeLiquidityETHWithPermit | External ! | ● [NO ! |
L | swapExactTokensForTokens | External ! | ● [NO ! |
L | swapTokensForExactTokens | External ! | ● [NO ! |
L | swapExactETHForTokens | External ! | 🟢 [NO ! |
L | swapTokensForExactETH | External ! | ● [NO ! |
L | swapExactTokensForETH | External ! | ● [NO ! |
L | swapETHForExactTokens | External ! | 🟢 [NO ! |
L | quote | External ! | [NO ! |
L | getAmountOut | External ! | [NO ! |

```

FUNCTION DETAILS

```

|  | getAmountIn | External | ! | |NO ! |
|  | getAmountsOut | External | ! | |NO ! |
|  | getAmountsIn | External | ! | |NO ! |
|||||
|  | **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External | ! | ● |NO ! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | ! | ● |NO ! |
|
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | ! | ● |NO ! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External | ! | 🟢 |NO ! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External | ! | ● |NO ! |
|||||
|  | **IERC20** | Interface | |||
|  | totalSupply | External | ! | |NO ! |
|  | balanceOf | External | ! | |NO ! |
|  | allowance | External | ! | |NO ! |
|  | transfer | External | ! | ● |NO ! |
|  | approve | External | ! | ● |NO ! |
|  | transferFrom | External | ! | ● |NO ! |
|||||
|  | **IERC20Metadata** | Interface | IERC20 |||
|  | name | External | ! | |NO ! |
|  | symbol | External | ! | |NO ! |
|  | decimals | External | ! | |NO ! |
|||||
|  | **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
|  | <Constructor> | Public | ! | ● |NO ! |
|  | name | Public | ! | |NO ! |
|  | symbol | Public | ! | |NO ! |
|  | decimals | Public | ! | |NO ! |
|  | totalSupply | Public | ! | |NO ! |
|  | balanceOf | Public | ! | |NO ! |
|  | transfer | Public | ! | ● |NO ! |
|  | allowance | Public | ! | |NO ! |
|  | approve | Public | ! | ● |NO ! |
|  | transferFrom | Public | ! | ● |NO ! |
|  | increaseAllowance | Public | ! | ● |NO ! |
|  | decreaseAllowance | Public | ! | ● |NO ! |
|  | _transfer | Internal | 🔒 | ● | |
|  | _mint | Internal | 🔒 | ● | |
|  | _burn | Internal | 🔒 | ● | |
|  | _approve | Internal | 🔒 | ● | |
|  | _beforeTokenTransfer | Internal | 🔒 | ● | |
|||||
|  | **xAI** | Implementation | ERC20, Ownable |||
|  | <Constructor> | Public | ! | ● |ERC20 |
|  | <Receive Ether> | External | ! | 🟢 |NO ! |

```

FUNCTION DETAILS

```

| L | claimStuckTokens | External ! | ● | NO ! |
| L | setNum | External ! | ● | onlyOwner |
| L | excludeFromFees | External ! | ● | onlyOwner |
| L | isExcludedFromFees | Public ! | | NO ! |
| L | changeMarketingWallet | External ! | ● | onlyOwner |
| L | enableTrading | External ! | ● | onlyOwner |
| L | _transfer | Internal 🔒 | ● | |

```

Legend

Symbol	Meaning
●	Function can modify state
🔒	Function is payable

TESTNET VERSION

Adding Liquidity

Tx:

<https://testnet.bscscan.com/tx/0xa482b8cf5ddd9cd00c16761d714d9c0bf222c62c6c3f1bddd4e20eca81686e22>

=====

Buying when excluded from fees

Tx (0% tax):

<https://testnet.bscscan.com/tx/0x8195361d0d33a2d0a605ca14c99179195e3c50413f5e6d1bde5d970e5f6cbf36>

=====

Selling when excluded from fees

Tx (0% tax):

<https://testnet.bscscan.com/tx/0x564b654e4cd6e1c4a1c50654226850493c19924f2981cd9c44dd856edee39363>

=====

Transferring when excluded from fees

Tx (0% tax):

<https://testnet.bscscan.com/tx/0x8cd06964f697ebac4d86db03fe5b1f7a819345ce2534d03a63b482fbe4cb05f8>

=====

Buying

Tx (0-25% tax):

<https://testnet.bscscan.com/tx/0x148ff6e4a17bb5d471c5519911fa00f6c14b5568a2bf46cde9617bc760480647>

TESTNET VERSION

Selling ✓

Tx (0-25% tax):

<https://testnet.bscscan.com/tx/0x4cf7800508b3b80d09a6172e3703f5eb3db0977f8e0940f5abe65844220eb194>

=====

Transferring ✓

Tx (0-25% tax):

<https://testnet.bscscan.com/tx/0x23dd292b175c8e92d4bc2d8e4c9e0899a02cf5655459feff111281bffa47af3f>

=====

Internal swap (auto-liquidity | BNB to marketing wallet) ✓

Tx:

<https://testnet.bscscan.com/address/0x9951708527e2e028ab18951e42aee8395bf5f830>

MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standards.

Vulnerabilities are divided into three primary risk categories:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
	Likelihood			

HIGH RISK FINDING

Trades are disabled by default

Category: **Centralization**

Status: Open

Severity: **High**

Overview:

The contract has been structured such that all trading is disabled by default, necessitating the contract owner's manual intervention to enable trading. This can lead to a situation where, if trades remain disabled, token holders won't be able to buy, sell, or trade their tokens, causing a severe impact on the token's usability and market liquidity.

```
function enableTrading() external onlyOwner {  
    tradingEnabled = true;  
    antiBotBlockEnd = block.number + antiBotBlockAmount;  
}
```

Suggestion:

To mitigate this risk, it is recommended that trading be enabled before the token presale. This can be achieved by invoking the "enableTrading" function or by transferring ownership of the contract to a third-party that has established trust with the community, such as a Certified SAFU developer. This reduces the concentration of power and the potential for malicious actions, thereby promoting a more decentralized and fair environment for all participants.

ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up. Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

 www.expelee.com



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This document should not be presented as a reason to buy or not buy any particular token. The Expelee team disclaims any liability for the resulting losses.

The logo for Expelee, featuring the word "expelee" in a stylized font. The "ex" is in white, and "pelee" is in orange. The letters are bold and modern.

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