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Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

wNexus

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	**21 August 2023**

CONTRACT DETAILS

Token Address:
0xe5C2F5FDF935e44F0C47CF9c248c31C73D690369

Name: Nexus Chain

Symbol: wNexus

Decimals: 18

Network: Ethereum

Token Type: ERC20

Owner: 0x656CDD46e3dc2A3728491b143b8E8E91c780DAC5

Deployer:
0x656CDD46e3dc2A3728491b143b8E8E91c780DAC5

Token Supply: 150,000,000

Checksum:
cb2134035a08d9a9f0030b2f1bc77b3adcf0973d

Testnet version:
The tests conducted were performed on the contract deployed on the Binance Smart Chain (BSC) Testnet.
https://testnet.bscscan.com/token/0xb12a657AD96Cc561904468E7aF20914a4C712BB4

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 acces 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 warning that can remain unfixed.

Informational

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

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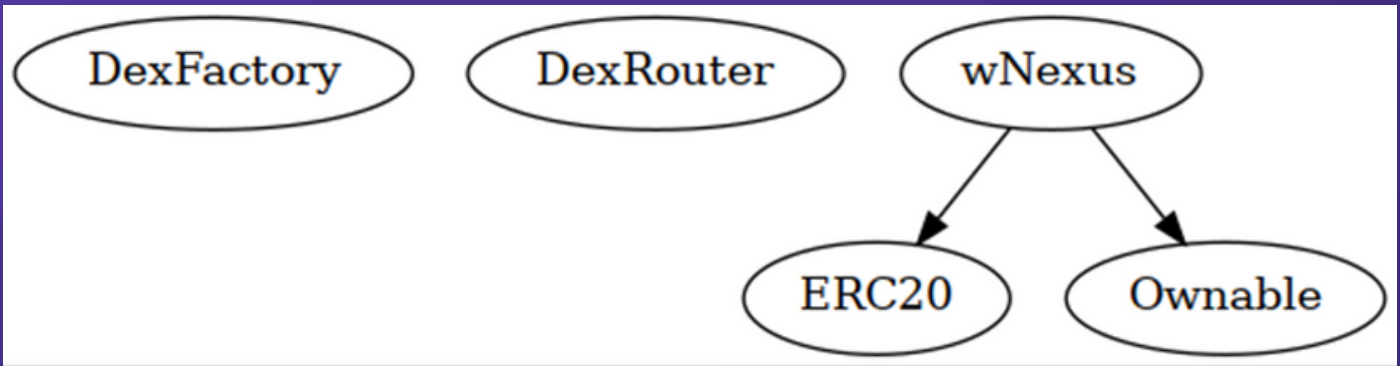
INHERITANCE TREES



FUNCTION DETAILS

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
DexFactory	Interface			
└	createPair	External ❗	🛑	NO ❗
DexRouter	Interface			
└	factory	External ❗		NO ❗
└	WETH	External ❗		NO ❗
└	addLiquidityETH	External ❗	💵	NO ❗
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO ❗
wNexus	Implementation	ERC20, Ownable		
└	‹Constructor›	Public ❗	🛑	ERC20
└	enableTrading	External ❗	🛑	onlyOwner
└	setMarketingWallet	External ❗	🛑	onlyOwner
└	setBuyFees	External ❗	🛑	onlyOwner
└	setSellFees	External ❗	🛑	onlyOwner
└	setSwapTokensAtAmount	External ❗	🛑	onlyOwner
└	toggleSwapping	External ❗	🛑	onlyOwner
└	setWhitelistStatus	External ❗	🛑	onlyOwner
└	checkWhitelist	External ❗		NO ❗
└	_takeTax	Internal 🔒	🛑	
└	_transfer	Internal 🔒	🛑	
└	manageTaxes	Internal 🔒	🛑	
└	swapToETH	Internal 🔒	🛑	
└	withdrawStuckETH	External ❗	🛑	onlyOwner
└	withdrawStuckTokens	External ❗	🛑	onlyOwner
└	‹Receive Ether›	External ❗	💵	NO ❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

TESTNET VERSION

Adding Liquidity ✅
Tx:
https://testnet.bscscan.com/tx/0xe0a7d5fd13b54866af9f934b39ccf6cc0d9363cfd1380edda86426af50b31e03

==========

Buying when excluded from fees ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0xe5ca95ce4fe223c164f6d2209171ea31e6864d88bd82becf4ca49c517ab02ff4

==========

Selling when excluded from fees ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x5fa429daab3e3ea6ac4335b8b8fc3a72e85cce7b9351bfe6f71694f78a275f1f

==========

Transferring when excluded from fees ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x88c6bc71e0518a5c5a4e0e9fca33203f5464edb5325f42ff416cb21e543fe5ed

==========

Buying ✅
Tx (0-10% tax):
https://testnet.bscscan.com/tx/0xa60b6af7daeb1693aea52bf7908a1f1f45b5f168a9034a500e8081604fb6a880

TESTNET VERSION

Selling ✅
Tx (0-10% tax):
https://testnet.bscscan.com/tx/0xfe7e8d156eab70a9cbda4d41b1f8a910111a4c25163e3cd9afd2f1cc18f1e0c5

==========

Transferring ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0xc4f92125fa0153418bd5b674f49b9bbc0cfb294f5e73d54095c9737379afa364

==========

Internal swap (ETH sent to marketing) ✅
Tx:
https://testnet.bscscan.com/tx/0xfe7e8d156eab70a9cbda4d41b1f8a910111a4c25163e3cd9afd2f1cc18f1e0c5

MANUAL REVIEW

Severity Criteria

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

Vulnerabilities are dividend into three primary risk categroies:
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

Category: Centralization

Subject: Trades are disabled by default

Status: Open

Impact: 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(address _pairAddress) external onlyOwner {
    pairAddress = _pairAddress;
    tradingStatus = true;
}
```

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.

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