

# expe|ee

Building the Futuristic **Blockchain Ecosystem**

## Security Audit Report FOR

# DFM

# 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:

 <b>Audit Result</b>	<b>Passed</b>
 <b>KYC Verification</b>	<b>Not Done</b>
 <b>Audit Date</b>	<b>30 March 2023</b>

# CONTRACT DETAILS

Token Name

**Defibitrum**

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Network

**Binance smart chain**

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Contract Address (Verified)

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Token Type

**BEP20**

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Symbol

**DFM**

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Language

**Solidity**

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Total Supply

**1,000,000,000**

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Contract SHA-256 Checksum:

**be169b6e8ca1f842319937d753040ba3aff0e52a**

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Owner's Wallet

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Deployer's Wallet

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# 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
- Complier
- Hardhat

# FUNCTION OVERVIEW

Can Take Back Ownership	Not Detected
Owner Change Balance	Not Detected
Blacklist	Not Detected
Modify Fees	Not Detected
Proxy	Not Detected
Whitelisted	Not Detected
Anti Whale	Not Detected
Trading Cooldown	Not Detected
Transfer Pausable	Not Detected
Cannot Sell All	Not Detected
Hidden Owner	Not Detected
Mint	Not Detected

# VULNERABILITY CHECKLIST

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp 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 Zeppelin module	Passed
Fallback function security	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

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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

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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

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

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

# AUDIT SUMMARY

## Used Tools:

**The following tools were utilized to ensure the reliability and functionality of the code:**

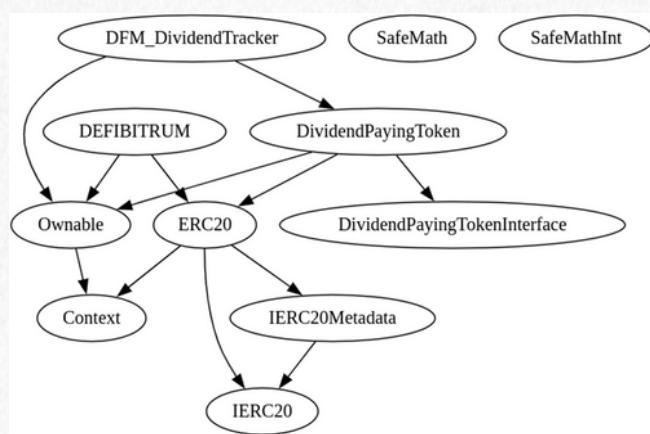
**1. Manual Review:** The code underwent a thorough review process by the Expelee team, which involved analyzing the code line by line. This review helped to identify any potential issues or bugs that could impact the performance of the code.

**2. BSC Test Network:** The code was tested extensively on the BSC Test network to ensure that it functions as intended. All tests were conducted using the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be accessed in the "Functional Tests" section of the report.

Overall, these tools were instrumental in identifying any potential issues and ensuring that the code functions as expected.

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## Inheritance Trees:



## Summary:

- Owner is not able to set buy/sell/transfer fees more than 12% (24% max fee for a buy and sell)
- Owner is not able to set max buy/sell/transfer/hold amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens
- Owner must enable trading for investors**

# Functional Tests

## 1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0xdd5b5da6590fc129ca2ab257ec5368f50a3b6b1bbf7c14b89ff350a0fb021a7>

## 2- Buying when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xa5ae4be3d0815210132abc3dfb39229e7a0197a670c530d2d5385983fa1cbb83>

## 3- Selling when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x2214100ae16fcdc942733069b62a135d1ac5c8e83cf824e0a4439ac3971101f6>

## 4- Transferring when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x2d315b6f8556924a9443cd5408fbacf94678d693d3e757ad76c1ed9ab38ead00>

## 5- Buying when not excluded from fees (up to 12% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xff2f4ca545c80abe295be47fed4fb66d528c8f96cd3dec32d8f8e492f0a8ea30>

## 6- Selling when not excluded from fees (up to 12% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xba1949fec64e496de262071cf313e098209ced10b049e801e99e5142a4886266>

# Functional Tests

**7- Transferring when not excluded from fees (up to 12% tax) (passed):**

<https://testnet.bscscan.com/tx/0x96e1a3c5a798bbe12d083fe8679e6794487115da86acf87e4aa15dcf83dbfc7>

**8- Internal swap (passed):**

<https://testnet.bscscan.com/address/0xdb4c97f3aad813ea9b70e8f56447fe0b97496188#internaltx>

**9- Auto Liquidity (passed):**

<https://testnet.bscscan.com/token/0xe9b606a36518da57c2339386d298163c9c5007f8?a=0x000>

**10- Distribution of rewards (passed):**

<https://testnet.bscscan.com/tx/0xda8838730450689f127e4eff5f60ebdaeaa9fdde11ee5c5132af089e562e1163>

# MANUAL AUDIT

## Severity Criteria

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

Vulnerabilities are divided into three primary risk categories: **high**, **medium**, and **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				

# FINDINGS

- **High Risk Findings:** 0
  - **Medium Risk Findings:** 0
  - **Low Risk Findings:** 0
  - **Suggestions & discussion:** 1
  - **Gas Optimizations :** 0
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# Suggestions

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**Severity:**

Informational

**Function:**

EnableTrading

**Lines:** ---

**Status:**

not resolved

**Overview:**

Tokens cannot be traded by investors unless the owner enables trading, which could lead to financial losses if trading remains disabled.

```
function EnableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading Enabled!");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

# 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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