



# expelee

A Secure Place For Web3

## **SMART CONTRACT AUDIT OF**

## **MERIT**



**Contract Address** 

0xA8f446e24eE7fCA342f4162C2932fB184C797a38

www.expelee.com | Page 1 |





# **Audit Summary**

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** 

KYC Verification: Not done till date of audit

Audit Date: 15/05/2022

**Audit Team: EXPELEE** 

Be aware that smart contracts deployed on the blockchain aren't resistant to internal exploit, external vulnerability, or hack. For a detailed understanding of risk severity, source code vulnerability, functional hack, and audit disclaimer, kindly refer to the audit.

www.expelee.com | Page 2 |





# **DISCLAMER**

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document.

Always Do your own research and protect yourselves from being scammed. The Expelee team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools.

Under no circumstances did Expelee receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams.

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.

www.expelee.com Page 3 |



# **Contract Review**

Contract Name	StandardToken
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	Yes with 200 runs
License	No license
Explorer	https://bscscan.com/address/0xA8f44 6e24eE7fCA342f4162C2932fB184C797a 38#code
Symbol	MERIT
Decimals	9
Total Supply	100,000,000
Domain	https://merit.global/

www.expelee.com | Page 4 |





# **Project Review**

**Token Name: MERIT** 

Web Site: https://merit.global/

Twitter: https://twitter.com/MERITNEW

Telegram: https://t.me/MERITANN

**Contract Address:** 

0xA8f446e24eE7fCA342f4162C2932fB184C797a38

**Platform: Binance Smart Chain** 

Token Type: BEP 20

Language: SOLIDITY

www.expelee.com Page 5 |





# **Audit Methodology**

The scope of this report is to audit the smart contract source code. We have scanned the contract and reviewed the project for common vulnerabilities, exploits, hacks, and back-doors. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

### Category

Smart Contract Vulnerabilities

- Unhandled Exceptions
- Transaction Order Dependency
- Integer Overflow
- Unrestricted Action
- Incorrect Inheritance Order
- Typographical Errors
- Requirement Violation

Source Code Review

- Gas Limit and Loops
- Deployment Consistency
- Repository Consistency
- Data Consistency
- Token Supply Manipulation

Functional Assessment

- Operations Trail & Event Generation
- Assets Manipulation
- Liquidity Access

www.expelee.com | Page 6 |





# **Vulnerability Checklist**

Nō	Description.	Result
1	Compiler warnings.	Passed
2	Race conditions and Re-entrancy. Cross-function raceconditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	Front running.	Passed
6	Timestamp dependence.	Passed
7	Integer Overflow and Underflow.	Passed
8	DoS with Revert.	Passed
9	DoS with block gas limit.	Passed
10	Methods execution permissions.	Passed
11	Economy model.	Passed
12	The impact of the exchange rate on the logic.	Passed
13	Private user data leaks.	Passed
14	Malicious Event log.	Passed
15	Scoping and Declarations.	Passed
16	Uninitialized storage pointers.	Passed
17	Arithmetic accuracy.	Passed
18	Design Logic.	Passed
19	Cross-function race conditions.	Passed
20	Safe Zeppelin module.	Passed
21	Fallback function security.	Passed

www.expelee.com | Page 7 |

## **Manual Audit**

- Low-Risk
- 2 low-risk code issues found
- Medium-Risk0 medium-risk code issues found
  - High-Risk

    O high-risk code issues found

www.expelee.com | Page 8 |







#### 1) No zero address validation for some functions

Detect missing zero address validation.

```
function setAddress(address _stakingAddress,address _lpAddress,address _burnAddress) public onlyOwne
    stakingAddress = _stakingAddress;
    lpAddress = _lpAddress;
    burnAddress = _burnAddress;
}
```

#### Recommendation

Check that the new address is not zero.

www.expelee.com | Page 9 |





#### 2) Missing events arithmethics

Detect missing events for critical arithmetic parameters .

```
function setFee(uint256 _stakingFee,uint256 _lpFee,uint256 _burnFee) public onlyOwner{stakingFee =
    _stakingFee;
    lpFee = _lpFee;
    burnFee = _burnFee;
}
```

#### Recommendation

Check that the new address is not zero.

www.expelee.com | Page 10 |





# Manual Audit (Contract Function)

```
contract StandardToken is IERC20, Ownable, BaseToken {using
SafeMath for uint256;
uint256 public constant VERSION = 1;
mapping(address => uint256) private _balances;
mapping(address => mapping(address => uint256)) private _allowances;
string private _name;
string private _symbol; uint8
private _decimals;
uint256 private _totalSupply;uint256
public stakingFee;
uint256 public lpFee;
uint256 public burnFee;
address public stakingAddress;address
public lpAddress;
address public burnAddress;
mapping (address => bool) public isExcludedFromFee; mapping
(address => bool) public blackList;
```

www.expelee.com | Page 11 |





## Important Points To Consider

- ✓ The owner cannot mint tokens after Initial
  - ✓ The owner cannot stop Trading.
    - ✓ Verified contract source
- √ Token is sellable (not a honeypot) at this time
- X Ownership renounced or source does not contain an owner contract
  - X Source does not contain a fee modifier
    The source code contains a function which can modify the transaction fee.
    - ✓ Buy fee is less than 10% (0%)
    - ✓ Sell fee is less than 10% (0%)
- X Owner/creator wallet contains less than 10% of circulating token supply (59.8%)
- ✓ All other holders possess less than 10% of circulating token supply

www.expelee.com Page 12 |





# **About Expelee**

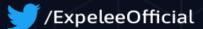
Expelee is a community driven organisation dedicated to fostering an antirug movement. We're here to keep investment safe from fraudsters. We've encountered several rug pulls and know how it feels to be duped, which is why we don't want anybody else to go through the same experience. We are here to raise awareness through our services so that the future of cryptocurrency can be rug-free.

The auditing process focuses to the following considerations with collaboration of an expert team:

- Functionality test of the Smart Contract to determine if proper logic has been followed throughout the whole process.
- Manually detailed examination of the code line by line by experts.
- Live test by multiple clients using Test net.
- Analysing failure preparations to check how the Smart
- Contract performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analysing the security of the on-chain data.

#### Social Media





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www.expelee.com | Page 13 |