

# Advanced Manual Smart Contract Audit

March 2, 2023

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Audit requested by





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# **Audit Summary**

| Project Name            | Flokita                                    |
|-------------------------|--|
| Website                 | https://flokita.online/                    |
| Blockchain              | Binance Smart Chain                        |
| Smart Contract Language | Solidity                                   |
| Contract Address        | 0xff107d6b39737828552a4b2f2a7e5cb33a2a8423 |
| Audit Method            | Static Analysis, Manual Review             |
| Date of Audit           | 2 March 2023                               |

This audit report has been prepared by Coinsult's experts at the request of the client. In this audit, the results of the static analysis and the manual code review will be presented. The purpose of the audit is to see if the functions work as intended, and to identify potential security issues within the smart contract.

The information in this report should be used to understand the risks associated with the smart contract. This report can be used as a guide for the development team on how the contract could possibly be improved by remediating the issues that were identified.



# **Audit Scope**

Coinsult was comissioned by Flokita to perform an audit based on the following code:

https://bscscan.com/address/0xff107d6b39737828552a4b2f2a7e5cb33a2a8423#code

Note that we only audited the code available to us on this URL at the time of the audit. If the URL is not from any block explorer (main net), it may be subject to change. Always check the contract address on this audit report and compare it to the token you are doing research for.

#### **Audit Method**

Coinsult's manual smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. This process is conducted to discover errors, issues and security vulnerabilities in the code in order to suggest improvements and ways to fix them.

#### **Automated Vulnerability Check**

Coinsult uses software that checks for common vulnerability issues within smart contracts. We use automated tools that scan the contract for security vulnerabilities such as integer-overflow, integer-underflow, out-of-gas-situations, unchecked transfers, etc.

#### Manual Code Review

Coinsult's manual code review involves a human looking at source code, line by line, to find vulnerabilities. Manual code review helps to clarify the context of coding decisions. Automated tools are faster but they cannot take the developer's intentions and general business logic into consideration.

#### Used tools

- Slither: Solidity static analysis framework

- Remix: IDE Developer Tool

- CWE: Common Weakness Enumeration

- SWC: Smart Contract Weakness Classification and Test Cases

- DEX: Testnet Blockchains



# **Risk Classification**

Coinsult uses certain vulnerability levels, these indicate how bad a certain issue is. The higher the risk, the more strictly it is recommended to correct the error before using the contract.

| Vulnerability Level | Description  |
|---------------------|--|
| Informational       | Does not compromise the functionality of the contract in any way |
| Low-Risk            | Won't cause any problems, but can be adjusted for improvement    |
| Medium-Risk         | Will likely cause problems and it is recommended to adjust       |
| High-Risk           | Will definitely cause problems, this needs to be adjusted        |

Coinsult has four statuses that are used for each risk level. Below we explain them briefly.

| Risk Status  | Description  |
|--------------|--|
| Total        | Total amount of issues within this category              |
| Pending      | Risks that have yet to be addressed by the team          |
| Acknowledged | The team is aware of the risks but does not resolve them |
| Resolved     | The team has resolved and remedied the risk              |



# **SWC Attack Analysis**

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

| ID      | Description                          | Status |
|---------|--------------------------------------|--------|
| SWC-100 | Function Default Visibility          | Passed |
| SWC-101 | Integer Overflow and Underflow       | Passed |
| SWC-102 | Outdated Compiler Version            | Passed |
| SWC-103 | Floating Pragma                      | Failed |
| SWC-104 | Unchecked Call Return Value          | Passed |
| SWC-105 | Unprotected Ether Withdrawal         | Passed |
| SWC-106 | Unprotected SELFDESTRUCT Instruction | Passed |
| SWC-107 | Reentrancy                           | Passed |
| SWC-108 | State Variable Default Visibility    | Failed |
| SWC-109 | Uninitialized Storage Pointer        | Passed |
| SWC-110 | Assert Violation                     | Passed |
| SWC-111 | Use of Deprecated Solidity Functions | Passed |
| SWC-112 | Delegatecall to Untrusted Callee     | Passed |
| SWC-113 | DoS with Failed Call                 | Passed |
| SWC-114 | Transaction Order Dependence         | Passed |
| SWC-115 | Authorization through tx.origin      | Passed |



| SWC-116 | Block values as a proxy for time                        | Passed |
|---------|---|--------|
| SWC-117 | Signature Malleability                                  | Passed |
| SWC-118 | Incorrect Constructor Name                              | Passed |
| SWC-119 | Shadowing State Variables                               | Passed |
| SWC-120 | Weak Sources of Randomness from Chain Attributes        | Passed |
| SWC-121 | Missing Protection against Signature Replay Attacks     | Passed |
| SWC-122 | Lack of Proper Signature Verification                   | Passed |
| SWC-123 | Requirement Violation                                   | Passed |
| SWC-124 | Write to Arbitrary Storage Location                     | Passed |
| SWC-125 | Incorrect Inheritance Order                             | Passed |
| SWC-126 | Insufficient Gas Griefing                               | Passed |
| SWC-127 | Arbitrary Jump with Function Type Variable              | Passed |
| SWC-128 | DoS With Block Gas Limit                                | Passed |
| SWC-129 | Typographical Error                                     | Passed |
| SWC-130 | Right-To-Left-Override control character (U+202E)       | Passed |
| SWC-131 | Presence of unused variables                            | Passed |
| SWC-132 | Unexpected Ether balance                                | Passed |
| SWC-133 | Hash Collisions With Multiple Variable Length Arguments | Passed |
| SWC-134 | Message call with hardcoded gas amount                  | Passed |
| SWC-135 | Code With No Effects                                    | Passed |
| SWC-136 | Unencrypted Private Data On-Chain                       | Passed |
|         |   |        |



# **Global Overview**

## **Manual Code Review**

In this audit report we will highlight the following issues:

| Vulnerability Level             | Total | Pending | Acknowledged | Resolved |
|---------------------------------|-------|---------|--------------|----------|
| <ul><li>Informational</li></ul> | 0     | 0       | 0            | 0        |
| <ul><li>Low-Risk</li></ul>      | 11    | 11      | 0            | 0        |
| Medium-Risk                     | 2     | 2       | 0            | 0        |
| <ul><li>High-Risk</li></ul>     | 1     | 1       | 0            | 0        |

## **Centralization Risks**

Coinsult checked the following privileges:

| Contract Privilege           | Description                                 |
|------------------------------|---|
| Owner can mint?              | Owner cannot mint new tokens                |
| Owner can blacklist?         | Owner can blacklist addresses               |
| Owner can set fees > 25%?    | Owner can set the sell fee to 25% or higher |
| Owner can exclude from fees? | Owner can exclude from fees                 |
| Owner can pause trading?     | Owner cannot pause the contract             |
| Owner can set Max TX amount? | Owner can set max transaction amount        |

More owner priviliges are listed later in the report.



| Error Code | Description                    |
|------------|--------------------------------|
| CS-01      | wrong require return statement |

#### wrong require return statement

```
function setTax(uint256 _liquidityFee, uint256 _teamFee, uint256 _marketingFee, uint256 _devFee, uint256
    liquidityFee = _liquidityFee;
    teamFee = _teamFee;
    marketingFee = _marketingFee;
    devFee = _devFee;
    stakingFee = _stakingFee;
    totalFee = _liquidityFee.add(_teamFee).add(_marketingFee).add(_devFee).add(_stakingFee);
    feeDenominator = _feeDenominator;
    require(totalFee < feeDenominator/5, &quot;Buy Fees cannot be more than 20%&quot;);
}
```

#### Recommendation

Fees are not only applied to buy but also to sell, change the return statement to a valid return statement



| Error Code | Description                                    |
|------------|--|
| SLT: 078   | Conformance to numeric notation best practices |

#### **Too many digits**

Literals with many digits are difficult to read and review.

```
uint256 public swapThreshold = _totalSupply * 20 / 10000;
```

#### **Recommendation**

Use: Ether suffix, Time suffix, or The scientific notation

#### **Exploit scenario**

```
contract MyContract{
    uint 1_ether = 10000000000000000000;
}
```

While 1\_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.



| Error Code | Description                     |
|------------|---------------------------------|
| SLT: 056   | Missing Zero Address Validation |

#### No zero address validation for some functions

Detect missing zero address validation.

```
function setTaxReceivers(address _autoLiquidityReceiver, address _marketingFeeReceiver, address _devFeel
    autoLiquidityReceiver = _autoLiquidityReceiver;
    marketingFeeReceiver = _marketingFeeReceiver;
    devFeeReceiver = _devFeeReceiver;
    stakingFeeReceiver = _stakingFeeReceiver;
    teamFeeReceiver = _teamFeeReceiver;
}
```

#### Recommendation

Check that the new address is not zero.

#### **Exploit scenario**

```
contract C {

modifier onlyAdmin {
   if (msg.sender != owner) throw;
   _;
}

function updateOwner(address newOwner) onlyAdmin external {
   owner = newOwner;
}
```

Bob calls updateOwner without specifying the newOwner, soBob loses ownership of the contract.



| Error Code | Description   |
|------------|---|
| SLT: 016   | Functions that send Ether to arbitrary destinations |

### Functions that send Ether to arbitrary destinations

Unprotected call to a function sending Ether to an arbitrary address.

```
function transfer() external {
    payable(devFeeReceiver).transfer(address(this).balance);
}
```

#### Recommendation

Ensure that an arbitrary user cannot withdraw unauthorized funds.

#### **Exploit scenario**

```
contract ArbitrarySend{
   address destination;
   function setDestination(){
      destination = msg.sender;
   }

   function withdraw() public{
      destination.transfer(this.balance);
   }
}
```

Bob calls setDestination and withdraw. As a result he withdraws the contract's balance.



| Error Code | Description     |
|------------|-----------------|
| SWC: 103   | Floating Pragma |

#### **Floating Pragma**

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

pragma solidity ^0.8.11;

#### Recommendation

Lock the pragma version and also consider known bugs (https://github.com/ethereum/solidity/releases) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.



| Error Code | Description                           |
|------------|---------------------------------------|
| SWC: 108   | State variable visibility is not set. |

#### **State Variable Default Visibility**

Labeling the visibility explicitly makes it easier to catch incorrect assumptions about who can access the variable.

```
address WBNB;
uint256 _totalSupply = 1 * 10**9 * 10**_decimals;
mapping (address => uint256) _balances;
mapping (address => mapping (address => uint256)) _allowances;
mapping (address => bool) isantiboted;
mapping (address => bool) isFeeExempt;
mapping (address => bool) isTxLimitExempt;
uint256 sellMultiplier = 200;
uint256 buyMultiplier = 100;
uint256 transferMultiplier = 600;
uint256 launchBlock;
bool inSwap;
```

#### Recommendation

Variables can be specified as being public, internal or private. Explicitly define visibility for all state variables.



| Error Code | Description                           |
|------------|---------------------------------------|
| SLT: 038   | Imprecise arithmetic operations order |

#### **Divide before multiply**

Solidity integer division might truncate. As a result, performing multiplication before division can sometimes avoid loss of precision.

```
uint256 feeAmount = amount.mul(totalFee).mul(multiplier).div(feeDenominator * 100);
```

#### Recommendation

Consider ordering multiplication before division.

#### **Exploit scenario**

```
contract A {
   function f(uint n) public {
      coins = (oldSupply / n) * interest;
   }
}
```

If n is greater than oldSupply, coins will be zero. For example, with oldSupply = 5; n = 10, interest = 2, coins will be zero. If (oldSupply \* interest / n) was used, coins would have been 1. In general, it's usually a good idea to re-arrange arithmetic to perform multiplication before division, unless the limit of a smaller type makes this dangerous.



| Error Code | Description               |
|------------|---------------------------|
| SLT: 054   | Missing Events Arithmetic |

#### Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setFeeDistribution(uint256 _buy, uint256 _sell, uint256 _trans) external onlyOwner {
    sellMultiplier = _sell;
    buyMultiplier = _buy;
    transferMultiplier = _trans;

    require(totalFee.mul(buyMultiplier).div(100) < 35, &quot;Tax cannot be more than 35%&quot;);
    require(totalFee.mul(sellMultiplier).div(100) &lt; 35, &quot;Tax cannot be more than 35%&quot;);
}

// switch Trading
function OpenTrading() public onlyOwner {
    tradingOpen = true;
    launchBlock = block.number;
}
```

#### Recommendation

Emit an event for critical parameter changes.

#### **Exploit scenario**

```
contract C {

modifier onlyAdmin {
   if (msg.sender != owner) throw;
   _;
}

function updateOwner(address newOwner) onlyAdmin external {
   owner = newOwner;
}
```

updateOwner() has no event, so it is difficult to track off-chain changes in the buy price.



| Error Code | Description                               |
|------------|---|
| SLT: 068   | Conformity to Solidity naming conventions |

#### **Conformance to Solidity naming conventions**

Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
function updateMax (uint256 _MaxGas) public onlyOwner {
    MaxGas = _MaxGas * 1 gwei;
}
```

#### Recommendation

Follow the Solidity naming convention.

#### **Rule exceptions**

- Allow constant variable name/symbol/decimals to be lowercase (ERC20).
- Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.



| Error Code | Description                       |
|------------|-----------------------------------|
| CS: 071    | Using safemath in Solidity 0.8.0+ |

#### Using safemath in Solidity 0.8.0+

SafeMath is generally not needed starting with Solidity 0.8, since the compiler now has built in overflow checking.

```
library SafeMath {
/**
    * @dev Returns the addition of two unsigned integers, with an overflow flag.
    *
    * _Available since v3.4._
    */
function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
    unchecked {
        uint256 c = a + b;
        if (c < a) return (false, 0);
        return (true, c);
    }
}
/**
    * @dev Returns the substraction of two unsigned integers, with an overflow flag.</pre>
```

#### Recommendation

Check if you really need SafeMath and consider removing it.



| Error Code | Description    |
|------------|----------------|
| CS: 016    | Initial Supply |

#### **Initial Supply**

When the contract is deployed, the contract deployer receives all of the initially created assets. Since the deployer and/or contract owner can distribute tokens without consulting the community, this could be a problem.

#### Recommendation

Private keys belonging to the employer and/or contract owner should be stored properly. The initial asset allocation procedure should involve consultation with the community.



| Error Code | Description               |
|------------|---------------------------|
| CS: 017    | Reliance on third-parties |

#### **Reliance on third-parties**

Interaction between smart contracts with third-party protocols like Uniswap and Pancakeswap. The audit's scope presupposes that third party entities will perform as intended and treats them as if they were black boxes. In the real world, third parties can be hacked and used against you. Additionally, improvements made by third parties may have negative effects, such as higher transaction costs or the deprecation of older routers.

#### Recommendation

Regularly check third-party dependencies, and when required, reduce severe effects.



| Error Code | Description                               |
|------------|---|
| CSM-01     | two functions with the same function name |

Medium-Risk: Should be fixed, could bring problems.

#### two functions with the same function name

```
function transfer() external {
          payable(devFeeReceiver).transfer(address(this).balance);
}

function transfer(address recipient, uint256 amount) external override returns (bool) {
          return _transferFrom(msg.sender, recipient, amount);
     }
```

#### Recommendation

Change the name of one of the function to prevent wrong function use



| Error Code | Description                    |
|------------|--------------------------------|
| CSM-02     | Wrong require return statement |

Medium-Risk: Should be fixed, could bring problems.

## Wrong require return statement

```
function setFeeDistribution(uint256 _buy, uint256 _sell, uint256 _trans) external onlyOwner {
    sellMultiplier = _sell;
    buyMultiplier = _buy;
    transferMultiplier = _trans;

    require(totalFee.mul(buyMultiplier).div(100) < 35, &quot;Tax cannot be more than 35%&quot;);
    require(totalFee.mul(sellMultiplier).div(100) &lt; 35, &quot;Tax cannot be more than 35%&quot;);
}
```

#### Recommendation

Transfer tax can be more than 35%, change the requirement return statement to a correct return statement



| Error Code | Description   |
|------------|---|
| CSH-01     | Addresses can be blacklisted if MaxGas is set arbitrary low |

**High-Risk:** Must be fixed, will bring problems.

#### Addresses can be blacklisted if MaxGas is set arbitrary low

#### Recommendation

Require this MaxGas fee to prevent misuse



## **Maximum Fee Limit Check**

| Error Code | Description                               |
|------------|---|
| CEN-01     | Centralization: Operator Fee Manipulation |

Coinsult tests if the owner of the smart contract can set the transfer, buy or sell fee to 25% or more. It is bad practice to set the fees to 25% or more, because owners can prevent healthy trading or even stop trading when the fees are set too high.

| Type of fee  | Description                                     |
|--------------|---|
| Transfer fee | Owner can set the transfer fee to 25% or higher |
| Buy fee      | Owner can set the buy fee to 25% or higher      |
| Sell fee     | Owner can set the sell fee to 25% or higher     |

| Type of fee      | Description |
|------------------|-------------|
| Max transfer fee | 100%        |
| Max buy fee      | 35%         |
| Max sell fee     | 35%         |



## **Contract Pausability Check**

| Error Code | Description                          |
|------------|--------------------------------------|
| CEN-02     | Centralization: Operator Pausability |

Coinsult tests if the owner of the smart contract has the ability to pause the contract. If this is the case, users can no longer interact with the smart contract; users can no longer trade the token.

| Privilege Check               | Description                     |
|-------------------------------|---------------------------------|
| Can owner pause the contract? | Owner cannot pause the contract |



## **Max Transaction Amount Check**

| Error Code | Description                                       |
|------------|---|
| CEN-03     | Centralization: Operator Transaction Manipulation |

Coinsult tests if the owner of the smart contract can set the maximum amount of a transaction. If the transaction exceeds this limit, the transaction will revert. Owners could prevent normal transactions to take place if they abuse this function.

| Privilege Check              | Description                          |
|------------------------------|--------------------------------------|
| Can owner set max tx amount? | Owner can set max transaction amount |

## **Function**

```
function updateMaxTx(uint256 maxTXPercentage_base1000) external onlyOwner {
    require(maxTXPercentage_base1000 >= 5,"Cannot set max transaction less than 0.5%");
    _maxTxAmount = (_totalSupply * maxTXPercentage_base1000 ) / 1000;
}
```



#### **Exclude From Fees Check**

| Error Code | Description                        |
|------------|------------------------------------|
| CEN-04     | Centralization: Operator Exclusion |

Coinsult tests if the owner of the smart contract can exclude addresses from paying tax fees. If the owner of the smart contract can exclude from fees, they could set high tax fees and exclude themselves from fees and benefit from 0% trading fees. However, some smart contracts require this function to exclude routers, dex, cex or other contracts / wallets from fees.

| Privilege Check              | Description                 |
|------------------------------|-----------------------------|
| Can owner exclude from fees? | Owner can exclude from fees |

## **Function**

```
function setIsFeeExempt(address[] calldata addresses, bool status) external onlyOwner {
    require(addresses.length < 501,&quot;GAS Error: max limit is 500 addresses&quot;);
    for (uint256 i; i &lt; addresses.length; ++i) {
        isFeeExempt[addresses[i]] = status;
    }
}
```



## **Ability To Mint Check**

| Error Code | Description                              |
|------------|--|
| CEN-05     | Centralization: Operator Increase Supply |

Coinsult tests if the owner of the smart contract can mint new tokens. If the contract contains a mint function, we refer to the token's total supply as non-fixed, allowing the token owner to "mint" more tokens whenever they want.

A mint function in the smart contract allows minting tokens at a later stage. A method to disable minting can also be added to stop the minting process irreversibly.

Minting tokens is done by sending a transaction that creates new tokens inside of the token smart contract. With the help of the smart contract function, an unlimited number of tokens can be created without spending additional energy or money.

| Privilege Check | Description                  |
|-----------------|------------------------------|
| Can owner mint? | Owner cannot mint new tokens |



## **Ability To Blacklist Check**

| Error Code | Description                                |
|------------|--|
| CEN-06     | Centralization: Operator Dissalows Wallets |

Coinsult tests if the owner of the smart contract can blacklist accounts from interacting with the smart contract. Blacklisting methods allow the contract owner to enter wallet addresses which are not allowed to interact with the smart contract.

This method can be abused by token owners to prevent certain / all holders from trading the token. However, blacklists might be good for tokens that want to rule out certain addresses from interacting with a smart contract.

| Privilege Check      | Description                   |
|----------------------|-------------------------------|
| Can owner blacklist? | Owner can blacklist addresses |

#### **Function**

```
function addtoblacklist(address[] calldata addresses, bool status) public onlyOwner {
    for (uint256 i; i < addresses.length; ++i) {
        isblacklisted[addresses[i]] = status;
    }
}

function addtoantibot(address[] calldata addresses, bool status) public onlyOwner {
    for (uint256 i; i &lt; addresses.length; ++i) {
        isantiboted[addresses[i]] = status;
    }
}
```



## Other Owner Privileges Check

| Error Code | Description                         |
|------------|-------------------------------------|
| CEN-100    | Centralization: Operator Priviliges |

Coinsult lists all important contract methods which the owner can interact with.

- ⚠ Owner can open trading whenever he wants
- ⚠ Owner can withdraw tokens from the contract balance
- ⚠ Owner can set max holding balance
- ⚠ Owner can exclude addresses from max holding limit
- ⚠ Owner can exclude addresses from max transaction amount
- ⚠ Owner can set targetliquidity level
- ⚠ Authorized wallets can trade before trading is opened



# Notes

## Notes by Flokita

No notes provided by the team.

## **Notes by Coinsult**

No notes provided by Coinsult



# **Contract Snapshot**

This is how the constructor of the contract looked at the time of auditing the smart contract.



## **Website Review**

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



| Type of check             | Description                                  |
|---------------------------|--|
| Mobile friendly?          | The website is mobile friendly               |
| Contains jQuery errors?   | The website does not contain jQuery errors   |
| Is SSL secured?           | The website is SSL secured                   |
| Contains spelling errors? | The website does not contain spelling errors |



# **Certificate of Proof**

Not KYC verified by Coinsult

# **Flokita**

**Audited by Coinsult.net** 



Date: 2 March 2023

✓ Advanced Manual Smart Contract Audit



## Disclaimer

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The information in this report should be used to understand the risks associated with the smart contract. This report can be used as a guide for the development team on how the contract could possibly be improved by remediating the issues that were identified.

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

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# End of report Smart Contract Audit

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