

# Advanced Manual Smart Contract Audit

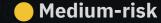


Project: BSCFlip

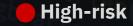
Website: https://www.bscflip.com



4 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

#### **Contract address**

0xC1e64a579E7399bF90E05cD3EE5958840a79bFdF (relaunch)

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

### Disclaimer

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.

The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult checks the contract for coding issues, we do not guarantee the use case of the code. We do not check the logic of the functions and if they are used for what they were intended to be used.

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### **Tokenomics**

Rank	Address	Quantity (Token)	Percentage
1	0x2c3de508c770a44f2902259f1800aa798f25ee06	10,000,000	100.0000%

## Source code

Coinsult was commissioned by BSCFlip to perform an audit based on the following smart contract:

https://bscscan.com/address/0xC1e64a579E7399bF90E05cD3EE5958840a 79bFdF#code

### **Manual Code Review**

#### Low-risk

4 low-risk code issues found.
Could be fixed, will not bring problems.

- Functions that send Ether to arbitrary destinations
Unprotected call to a function sending Ether to an arbitrary address.

```
addLiquidity(otherHalfLiq, liqFunds);
    (bool sent, bytes memory data) = _devAddress.call{value:
devFunds}("");
    (bool sent1, bytes memory data1) =
    _marketingAddress.call{value: marketingFunds}("");
        (bool sent2, bytes memory data2) = _teamAddress.call{value:
teamFunds}("");
    require(sent && sent1 && sent2, "Failed to send BNB");
    try distributor.deposit{value: rewardsFunds}() {} catch {}
```

Contract contains Reentrancy vulnerabilities:
 \_transferWithTaxes(address,address,uint256)

- Costly operations inside a loop
Use a local variable to hold the loop computation result.

```
while(gasUsed < gas && iterations < shareholderCount) {
    if(currentIndex >= shareholderCount) {
        currentIndex = 0;
    }

if(shouldDistribute(shareholders[currentIndex])) {
        distributeDividend(shareholders[currentIndex]);
    }

gasUsed = gasUsed.add(gasLeft.sub(gasleft()));
    gasLeft = gasleft();
    currentIndex++;
    iterations++;
}
```

- Unused return

Ensure that all the return values of the function calls are used.

```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount)
private {
    _approve(address(this), address(router), tokenAmount);

    router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0,
        0,
        address(0),
        block.timestamp
    );
}
```

#### Medium-risk

0 medium-risk code issues found. Should be fixed, could bring problems.

#### High-risk

O high-risk code issues found Must be fixed, and will bring problems.

#### Extra notes by the team

Owner can change the buy and sell fees up to maxFees (constant)

```
13. _maxFees
12 uint8
```

- Owner can exclude from fees
- Owner can set max transaction amount with limit of 0.5% total supply

```
// Set the max transaction percentage in increments of 0.1%.
   function setMaxTxPercentage(uint256 newMaxTxPercentage) external
onlyOwner {
      uint256 newMaxTx =
   _totalSupply.mul(newMaxTxPercentage).div(1000);

      require(newMaxTx != _maxTx, "Cannot set new max transaction to
the same value as current max transaction");
      require(newMaxTx >= _totalSupply.mul(5).div(1000), "Cannot set
max transaction lower than 0.5 percent");

      _maxTx = newMaxTx;
}
```

- Owner can exclude from max transaction amount
- Owner can set max balance amount with limit of 2% total supply

```
function setMaxBalancePercentage(uint256 newMaxBalancePercentage)
external onlyOwner() {
    uint256 newMaxBalance =
    _totalSupply.mul(newMaxBalancePercentage).div(100);

    require(newMaxBalance != _maxBalance, "Cannot set new max
balance to the same value as current max balance");
    require(newMaxBalance >= _totalSupply.mul(2).div(100), "Cannot set max balance lower than 2 percent");

    _maxBalance = newMaxBalance;
}
```

- Owner can exclude from max balance amount
- The ownership of the contract isn't renounced

#### The owner can withdraw tokens from the contract

```
// If you need to withdraw tokens that have been sent to the
contract
   function withdrawToken(address _tokenContract, uint256 _amount)
external onlyOwner {
        IERC20 tokenContract = IERC20(_tokenContract);

        // transfer the token from address of this contract
        // to address of the user (executing the withdrawToken())
function)
      tokenContract.transfer(msg.sender, _amount);
}
```

## **Contract Snapshot**

```
contract BSCFlip is Context, Ownable, Taxable {
   using Address for address;
    string private Bsymbol = "BSCF";
   uint256 private BmaxBalance = BtotalSupply.mul(2).div(100);
   uint256 private BmaxTx = BtotalSupply.mul(5).div(1000);
   uint8 private BmaxFees = 12;
   uint256 private BliquifyThreshhold = 3 * 10**4 * 10** Bdecimals;
       TokenDistribution({ totalSupply: BtotalSupply, decimals:
   address payable BdevAddress =
payable(address(0x2c3DE508c770a44F2902259f1800aA798f25ee06));
   address payable BmarketingAddress =
payable(address(0x7C29E5F9F7DB90E830bf42EEAc36ffBaE30A67cB));
   address payable BteamAddress =
payable(address(0x3252950D0ad561BF2E3689BA43C863456574ec6D));
   constructor ()
BmarketingAddress, BteamAddress,
teamFee: 3, liqFee: 61 }),
```