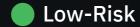


# Advanced Manual Smart Contract Audit

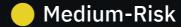


Project: Coin1

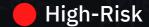
Website: Coming Soon



6 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

### **Contract Address**

0xd4023cE8AdDb636BcBdaa07a110A19bb6F93A441

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 can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

## **Tokenomics**

| Rank | Address                                    | Quantity (Token) | Percentage |
|------|--|------------------|------------|
| 1    | 0xe82a03fb7aeb4127b0237a376493e2e7af5f869b | 10,000,000       | 100.0000%  |

## **Source Code**

Coinsult was comissioned by Coin1 to perform an audit based on the following smart contract:

https://bscscan.com/address/0xd4023ce8addb636bcbdaa07a110a19bb6f93a441#code

## **Manual Code Review**

In this audit report we will highlight all these issues:



6 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

The detailed report continues on the next page...

### **Contract contains Reentrancy vulnerabilities**

Additional information: This combination increases risk of malicious intent. While it may be justified by some complex mechanics (e.g. rebase, reflections, buyback).

More information: Slither

```
function transfer(
   address from,
   address to,
   uint256 amount
) private {
   require(from != address(0), "ERC20: transfer from the zero address");
   require(to != address(0), "ERC20: transfer to the zero address");
   require(amount > 0, "Transfer amount must be greater than zero");
   uint256 contractTokenBalance = balanceOf(address(this));
   bool overMinTokenBalance = contractTokenBalance >=
       numTokensSellToAddToLiquidity;
       overMinTokenBalance & amp; & amp;
       !inSwapAndLiquify &&
       from != uniswapV2Pair & amp; & amp;
       swapAndLiquifyEnabled &&
       liquidityFee !=0 &&
       _marketingFee !=0
   ) {
       contractTokenBalance = numTokensSellToAddToLiquidity:
```

#### Recommendation

Apply the check-effects-interactions pattern.

### **Exploit scenario**

```
function withdrawBalance(){
    // send userBalance[msg.sender] Ether to msg.sender
    // if mgs.sender is a contract, it will call its fallback function
    if( ! (msg.sender.call.value(userBalance[msg.sender])() ) ){
        throw;
    }
    userBalance[msg.sender] = 0;
}
```

Bob uses the re-entrancy bug to call withdrawBalance two times, and withdraw more than its initial deposit to the contract.

## **Too many digits**

Literals with many digits are difficult to read and review.

```
_tTotal = 10000000 * 10**_decimals;
_rTotal = (MAX - (MAX % _tTotal));
numTokensSellToAddToLiquidity = 100000 * 10**_decimals;
```

### Recommendation

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

## **Exploit scenario**

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

### No zero address validation for some functions

Detect missing zero address validation.

```
function setMarketingWalletAddress(address _addr) external onlyOwner {
    _marketingWalletAddress = _addr;
}
```

#### 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.

### **Missing events arithmetic**

Detect missing events for critical arithmetic parameters.

```
function setSellFeePercent(
   uint256 tFee,
   uint256 lFee,
   uint256 mFee
   ) external onlyOwner {
   _sellTaxFee = tFee;
   _taxFee = _sellTaxFee;
   _sellLiquidityFee = lFee;
   _liquidityFee = _sellLiquidityFee;
   _sellMarketingFee = mFee;
   marketingFee = sellMarketingFee;
function setBuyFeePercent(
   uint256 tFee,
   uint256 lFee,
   uint256 mFee
) external onlyOwner {
    buyTaxFee = tFee;
```

### 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.

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

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

```
Variable Ownable._owner (#295) is not in mixedCase
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (#395) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (#397) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (#428) is not in mixedCase
Function IUniswapV2Router01.WETH() (#474) is not in mixedCase
Parameter TOKEN.setMarketingWalletAddress(address)._addr (#985) is not in mixedCase
Parameter TOKEN.setSwapAndLiquifyEnabled(bool)._enabled (#1003) is not in mixedCase
Parameter TOKEN.calculateTaxFee(uint256)._amount (#1128) is not in mixedCase
Parameter TOKEN.calculateLiquidityAndMarketingFee(uint256)._amount (#1132) is not in mixedCase
Variable TOKEN. marketingWalletAddress (#687) is not in mixedCase
Variable TOKEN. buyTaxFee (#697) is not in mixedCase
Variable TOKEN. buyLiquidityFee (#698) is not in mixedCase
Variable TOKEN._buyMarketingFee (#699) is not in mixedCase
Variable TOKEN. sellTaxFee (#701) is not in mixedCase
Variable TOKEN. sellLiquidityFee (#702) is not in mixedCase
Variable TOKEN. sellMarketingFee (#703) is not in mixedCase
```

#### 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.

### Costly operations inside a loop

Costly operations inside a loop might waste gas, so optimizations are justified.

#### Recommendation

Use a local variable to hold the loop computation result.

## **Exploit scenario**

```
contract CostlyOperationsInLoop{
   function bad() external{
      for (uint i=0; i < loop_count; i++){
          state_variable++;
      }
   }
}

function good() external{
   uint local_variable = state_variable;
   for (uint i=0; i < loop_count; i++){
      local_variable++;
    }
   state_variable = local_variable;
}
</pre>
```

Incrementing state\_variable in a loop incurs a lot of gas because of expensive SSTOREs, which might lead to an out-of-gas.

## **Owner privileges**

- Owner cannot pause trading
- Owner cannot change max transaction amount
- Owner can set fees higher than 25%
- Owner can exclude from fees

## Extra notes by the team

No notes

## **Contract Snapshot**

```
contract TOKEN is Context, IERC20, Ownable {
using SafeMath for uint256;
using Address for address;
mapping(address => uint256) private rOwned;
mapping(address => uint256) private _tOwned;
mapping(address => mapping(address => uint256)) private _allowances;
mapping(address => bool) private _isExcludedFromFee;
mapping(address => bool) private isExcluded;
address[] private excluded;
address public _marketingWalletAddress;
uint256 private constant MAX = ~uint256(0);
uint256 private tTotal;
uint256 private _rTotal;
uint256 private _tFeeTotal;
string private name;
string private symbol;
uint256 private _decimals;
uint256 public _buyTaxFee = 5;
uint256 public buyLiquidityFee = 5;
uint256 public _buyMarketingFee = 5;
uint256 public _sellTaxFee = 5;
uint256 public _sellLiquidityFee = 5;
uint256 public sellMarketingFee = 5;
uint256 private _taxFee = _buyTaxFee;
uint256 private liquidityFee = buyLiquidityFee;
uint256 private _marketingFee = _buyMarketingFee;
uint256 private _previousTaxFee = _taxFee;
uint256 private previousMarketingFee = liquidityFee;
uint256 private _previousLiquidityFee = _marketingFee;
IUniswapV2Router02 public uniswapV2Router;
```

## **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.

```
Empty simil

| Session | Capta | C
```

- Not Mobile Friendly
- Does contain jQuery errors
- Not SSL Secured
- Contains spelling errors

### Note:

**Coming soon** 

## **Project Overview**



KYC verified by Coinsult

## Coin1

Completed KYC Verification at Coinsult.net



Date: 1 July 2022

**✓** Project Owner Identified

✓ Contract: 0xd4023cE8AdDb636BcBdaa07a110A19bb6F93A441

## Coin1

Audited by Coinsult.net



Date: 1 July 2022

✓ Advanced Manual Smart Contract Audit