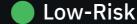


Advanced Manual Smart Contract Audit



Project: Cointoplist

Website: https://cointoplist.net/



8 low-risk code issues found

Medium-Risk

0 medium-risk code issues found

High-Risk

0 high-risk code issues found

Contract Address

0xC7FDA459a84A0d431cf19CaD3489E80FF9BffC39

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	0x64ba9e7a0a049a31fa986a6a0b847e4085caf7ff	81,257,500	81.2575%
2	0xfd3a8961906dc3dcbf7318b6556d6ed279c6bbe9	18,742,500	18.7425%

Source Code

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

https://bscscan.com/address/0xC7FDA459a84A0d431cf19CaD3489E80FF9BffC39#code

Manual Code Review

In this audit report we will highlight all these issues:



8 low-risk code issues found



0 medium-risk code issues found

High-Risk

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
) internal override {
    require(from != address(0), "ERC20: transfer from the zero address");
    require(to != address(0), "ERC20: transfer to the zero address");
    require(! isEnemy[from] && ! isEnemy[to], 'Enemy address');
    if(amount == 0) {
       super._transfer(from, to, 0);
       return;
    uint256 contractTokenBalance = balanceOf(address(this));
    bool canSwap = contractTokenBalance >= swapTokensAtAmount;
    if( canSwap & amp; & amp;
        !swapping &&
       !automatedMarketMakerPairs[from] & amp; & amp;
       from != owner() &amn:&amn:
```

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.

Avoid relying on block.timestamp

block.timestamp can be manipulated by miners.

Recommendation

Do not use block.timestamp, now or blockhash as a source of randomness

Exploit scenario

```
contract Game {
    uint reward_determining_number;
    function guessing() external{
        reward_determining_number = uint256(block.blockhash(10000)) % 10;
    }
}
```

Eve is a miner. Eve calls guessing and re-orders the block containing the transaction. As a result, Eve wins the game.

Too many digits

Literals with many digits are difficult to read and review.

```
gasForProcessing = 300000;
```

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 setMarketingWallet(address payable wallet) external onlyOwner{
    _marketingWalletAddress = wallet;
}
```

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.

Functions that send Ether to arbitrary destinations

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

```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
    // approve token transfer to cover all possible scenarios
    _approve(address(this), address(uniswapV2Router), tokenAmount);
    // add the liquidity
    uniswapV2Router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        _node,
        block.timestamp
    );
}
```

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.

Unchecked transfer

The return value of an external transfer/transferFrom call is not checked.

```
function swapAndSendToFee(uint256 tokens) private {
    uint256 initialCAKEBalance = IERC20(rewardToken).balanceOf(address(this));
    swapTokensForCake(tokens);
    uint256 newBalance = (IERC20(rewardToken).balanceOf(address(this))).sub(initialCAKEBalance);
    IERC20(rewardToken).transfer(_marketingWalletAddress, newBalance);
    AmountMarketingFee = AmountMarketingFee - tokens;
}
```

Recommendation

Use SafeERC20, or ensure that the transfer/transferFrom return value is checked.

Exploit scenario

```
contract Token {
    function transferFrom(address _from, address _to, uint256 _value) public returns (bool success);
}
contract MyBank{
    mapping(address => uint) balances;
    Token token;
    function deposit(uint amount) public{
        token.transferFrom(msg.sender, address(this), amount);
        balances[msg.sender] += amount;
    }
}
```

Several tokens do not revert in case of failure and return false. If one of these tokens is used in MyBank, deposit will not revert if the transfer fails, and an attacker can call deposit for free..

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setSwapTokensAtAmount(uint256 amount) public onlyOwner {
   swapTokensAtAmount = amount;
}
```

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.

```
mapping(address => bool) public _isEnemy;
```

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.

Owner privileges

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

Extra notes by the team

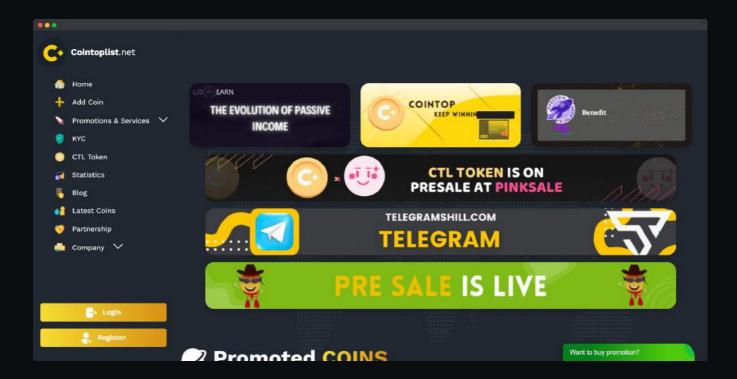
No notes

Contract Snapshot

```
contract CoinToken is ERC20, Ownable {
using SafeMath for uint256;
IUniswapV2Router02 public uniswapV2Router;
address public uniswapV2Pair;
bool private swapping;
TokenDividendTracker public dividendTracker;
address public rewardToken;
uint256 public swapTokensAtAmount;
uint256 public buyTokenRewardsFee;
uint256 public sellTokenRewardsFee;
uint256 public buyLiquidityFee;
uint256 public sellLiquidityFee;
uint256 public buyMarketingFee;
uint256 public sellMarketingFee;
uint256 public buyDeadFee;
uint256 public sellDeadFee;
uint256 public AmountLiquidityFee;
uint256 public AmountTokenRewardsFee;
uint256 public AmountMarketingFee;
```

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.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors

Project Overview

Not KYC verified by Coinsult

