



Coinsult

Advanced Manual Smart Contract Audit



Project: Marscity

Website: <http://www.marscity.ca/>

Low-risk

4 low-risk code
issues found

Medium-risk

0 medium-risk code
issues found

High-risk

0 high-risk code
issues found

Contract address

0xbdf9d58511CC04d108D101F4fB9b2a788Ed85Ef1

Disclaimer: 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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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.

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Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0x00147e4d4b96c47615f49c0714e4864d133dae07	2,100,000,000,000,000	100.00%

Source code

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

<https://bscscan.com/address/0xbdf9d58511cc04d108d101f4fb9b2a788ed85ef1#code>

Manual Code Review

● Low-risk

4 low-risk code issues found.

Could be fixed, will not bring problems.

- 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 sender, address recipient, uint256
amount) private returns (bool) {

    require(sender != address(0), "ERC20: transfer from the zero
address");
    require(recipient != address(0), "ERC20: transfer to the zero
address");

    if(inSwapAndLiquify)
    {
        return _basicTransfer(sender, recipient, amount);
    }
    else
    {

        uint256 contractTokenBalance = balanceOf(address(this));
        bool overMinimumTokenBalance = contractTokenBalance >=
minimumTokensBeforeSwap;

        if (overMinimumTokenBalance && !inSwapAndLiquify &&
!isMarketPair[sender] && swapAndLiquifyEnabled)
        {
            if(swapAndLiquifyByLimitOnly)
                contractTokenBalance = minimumTokensBeforeSwap;
            swapAndLiquify(contractTokenBalance);
        }

        _balances[sender] = _balances[sender].sub(amount,
"Insufficient Balance");
```

```

        uint256 finalAmount = (isExcludedFromFee[sender] ||
isExcludedFromFee[recipient]) ?
                                amount : takeFee(sender,
recipient, amount);

        _balances[recipient] =
_balances[recipient].add(finalAmount);

        emit Transfer(sender, recipient, finalAmount);
        return true;
    }
}

```

- Avoid relying on block.timestamp
block.timestamp can be manipulated by miners.

```
block.timestamp
```

- Missing zero address validation
Check that the new address is not the zero address.

```

function setMarketingWalletAddress(address newAddress) external
onlyOwner() {
    marketingWalletAddress = payable(newAddress);
}

```

- Literals with many digits are difficult to read and review.
Use: Ether suffix, Time suffix, or The scientific notation

```

uint256 private _totalSupply = 2100000000000000 * 10 ** _decimals;
uint256 private minimumTokensBeforeSwap = 210000 * 10 ** _decimals;

```

● **Medium-risk**

0 medium-risk code issues found.

Should be fixed, could bring problems.

● **High-risk**

0 high-risk code issues found

Must be fixed, and will bring problems.

Extra notes by the team

- Owner can change the router address
- Fees can be set up to 100% for both buy and sell fees.
- Owner can exclude addresses from fees.
- The owner can set max transaction amount
- The ownership of the contract isn't renounced.
- Owner is able to disable swap and liquify

Contract Snapshot

```
contract MarsCityToken is Context, IERC20, Ownable {

    using SafeMath for uint256;
    using Address for address;

    string private _name = "MarsCityToken";
    string private _symbol = "MCT";
    uint8 private _decimals = 9;

    address payable public marketingWalletAddress =
payable(0x74d493Af14DfE92D4B0fcE06Fb9b38fd1c863701);
    address payable public teamWalletAddress =
payable(0xB65462A965d5812127Ac4abB48035de43310fb6f);
    address public immutable deadAddress =
0x0000000000000000000000000000000000000000dEaD;

    mapping (address => uint256) _balances;
    mapping (address => mapping (address => uint256)) private
_allowances;

    mapping (address => bool) public isExcludedFromFee;
    mapping (address => bool) public isMarketPair;

    uint256 public _buyLiquidityFee = 2;
    uint256 public _buyMarketingFee = 3;
    uint256 public _buyTeamFee = 3;

    uint256 public _sellLiquidityFee = 2;
    uint256 public _sellMarketingFee = 3;
    uint256 public _sellTeamFee = 3;

    uint256 public _liquidityShare = 0;
    uint256 public _marketingShare = 12;
    uint256 public _teamShare = 12;

    uint256 public _totalTaxIfBuying = 5;
    uint256 public _totalTaxIfSelling = 5;
    uint256 public _totalDistributionShares = 24;
```

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
- Contains no jQuery errors
- SSL Secured
- No major spelling errors

Loading speed: 71%

Rug-pull Review

Based on the available information analyzed by us, we come to the following conclusions:

- Locked Liquidity (no liquidity yet)
- Large unlocked wallets
 - Note: Tokens not distributed yet
- No doxxed Team

Honeypot Review

Based on the available information analyzed by us, we come to the following conclusions:

- Ability to sell
- Owner is able to pause the contract
- Router can be changed

Note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the project owner.