



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

OMAX TOKEN



Deployer address

0xbc3c2c6e7baaeb7c7ea2ad4b2fa8681a91d47ccd



Client contacts:

OMAX TOKEN team



Blockchain

Binance Smart Chain



Project website:

www.omaxtoken.com

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by OMAX TOKEN to perform an audit of smart contracts:

<https://bscscan.com/address/0xeB84be66c8E71f07eA57Cf3b21626d7784F32A7F#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

Token contract details for 02.11.2021

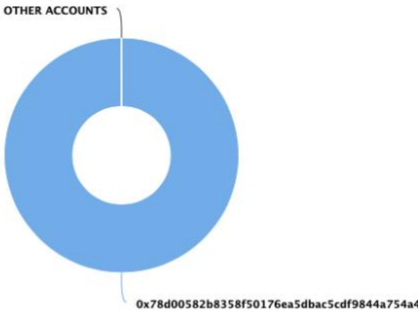
| | |
|----------------------------------|--|
| Contract name | OMAX TOKEN |
| Contract address | 0xeB84be66c8E71f07eA57Cf3b21626d7784F32A7F |
| Total supply | 10,000,000,000 |
| Token ticker | OMAX |
| Decimals | 18 |
| Token holders | 1 |
| Transactions count | 2 |
| Top 100 holders dominance | 100.00% |
| Liquidity fee | 200 |
| Tax fee | 400 |
| Total fees | 0 |
| Uniswap V2 pair | 0xe9a645aad486538bcb5aa05171f61cb3e78afa5a |
| Contract deployer address | 0xbc3c2c6e7baaeb7c7ea2ad4b2fa8681a91d47ccd |
| Contract's current owner address | 0x78d00582b8358f50176ea5dbac5cdf9844a754a4 |

OMAX TOKEN Token Distribution

The top 100 holders collectively own 100.00% (10,000,000,000.00 Tokens) of OMAX TOKEN

Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 1

OMAX TOKEN Top 100 Token Holders
Source: BscScan.com



(A total of 10,000,000,000.00 tokens held by the top 100 accounts from the total supply of 10,000,000,000.00 token)

OMAX TOKEN Top 10 Token Holders

| Rank | Address | Quantity (Token) | Percentage |
|------|--|------------------|------------|
| 1 | 0x78d00582b8358f50176ea5dbac5cdf9844a754a4 | 10,000,000,000 | 100.0000% |

Contract functions details

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Int] IERC20Metadata (IERC20)

- [Ext] name
- [Ext] symbol
- [Ext] decimals

+ [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Pair

- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve #
- [Ext] transfer #
- [Ext] transferFrom #
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit #
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] mint #
- [Ext] burn #
- [Ext] swap #
- [Ext] skim #
- [Ext] sync #
- [Ext] initialize #

+ [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH

- [Ext] addLiquidity #
 - [Ext] addLiquidityETH (\$)
 - [Ext] removeLiquidity #
 - [Ext] removeLiquidityETH #
 - [Ext] removeLiquidityWithPermit #
 - [Ext] removeLiquidityETHWithPermit #
 - [Ext] swapExactTokensForTokens #
 - [Ext] swapTokensForExactTokens #
 - [Ext] swapExactETHForTokens (\$)
 - [Ext] swapTokensForExactETH #
 - [Ext] swapExactTokensForETH #
 - [Ext] swapETHForExactTokens (\$)
 - [Ext] quote
 - [Ext] getAmountOut
 - [Ext] getAmountIn
 - [Ext] getAmountsOut
 - [Ext] getAmountsIn
- + [Int] IUniswapV2Router02 (IUniswapV2Router01)
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
 - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
 - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + [Lib] Address
- [Int] isContract
 - [Int] sendValue #
 - [Int] functionCall #
 - [Int] functionCall #
 - [Int] functionCallWithValue #
 - [Int] functionCallWithValue #
 - [Int] functionStaticCall
 - [Int] functionStaticCall
 - [Int] functionDelegateCall #
 - [Int] functionDelegateCall #
 - [Int] verifyCallResult
- + Ownable (Context)
- [Pub] <Constructor> #
 - [Pub] owner
 - [Pub] renounceOwnership #
 - modifiers: onlyOwner
 - [Pub] transferOwnership #
 - modifiers: onlyOwner
 - [Prv] _setOwner #
- + [Int] IERC20
- [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #

+ ERC20 (Context, IERC20, IERC20Metadata)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _beforeTokenTransfer #
- [Int] _afterTokenTransfer #

+ Omax (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] isExcludedFromReward
- [Pub] totalFees
- [Pub] totalBurn
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Prv] _distributeFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] _takeLiquidity #
- [Prv] calculateTaxFee
- [Prv] calculateBurnFee
- [Prv] calculateMarketingFee
- [Prv] calculateLiquidityFee

- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap
- [Prv] swapTokensForEth #
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _transferToExcluded #
- [Prv] _transferFromExcluded #
- [Prv] _transferBothExcluded #
- [Pub] excludeFromFee #
 - modifiers: onlyOwner
- [Pub] includeInFee #
 - modifiers: onlyOwner
- [Ext] enableAllFees #
 - modifiers: onlyOwner
- [Ext] disableAllFees #
 - modifiers: onlyOwner
- [Ext] setMarketingWallet #
 - modifiers: onlyOwner
- [Ext] setMaxTxPercent #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] setSellFeeMultiplier #
 - modifiers: onlyOwner
- [Ext] setTaxFee #
 - modifiers: onlyOwner
- [Ext] setBurnFee #
 - modifiers: onlyOwner
- [Ext] setLiquidityFee #
 - modifiers: onlyOwner
- [Ext] setMarketFee #
 - modifiers: onlyOwner

(\$) = payable function

= non-constant function

Issues Checking Status

| Issue description | Checking status |
|--|-----------------|
| 1. Compiler errors. | Passed |
| 2. Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 3. Possible delays in data delivery. | Passed |
| 4. Oracle calls. | Passed |
| 5. Front running. | Passed |
| 6. Timestamp dependence. | Passed |
| 7. Integer Overflow and Underflow. | Passed |
| 8. DoS with Revert. | Passed |
| 9. DoS with block gas limit. | Passed |
| 10. Methods execution permissions. | Passed |
| 11. Economy model of the contract. | Passed |
| 12. The impact of the exchange rate on the logic. | Passed |
| 13. Private user data leaks. | Passed |
| 14. Malicious Event log. | Passed |
| 15. Scoping and Declarations. | Passed |
| 16. Uninitialized storage pointers. | Passed |
| 17. Arithmetic accuracy. | Passed |
| 18. Design Logic. | Passed |
| 19. Cross-function race conditions. | Passed |
| 20. Safe Open Zeppelin contracts implementation and usage. | Passed |
| 21. Fallback function security. | Passed |

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can change the tax, burn, market and liquidity fee.

```
function setTaxFee(uint256 taxFee↑) external onlyOwner {
    _taxFee = taxFee↑;
}

ftrace | funcSig
function setBurnFee(uint256 burnFee↑) external onlyOwner {
    _burnFee = burnFee↑;
}

ftrace | funcSig
function setLiquidityFee(uint256 liquidityFee↑) external onlyOwner {
    _liquidityFee = liquidityFee↑;
}

ftrace | funcSig
function setMarketFee(uint256 marketFee↑) external onlyOwner {
    _marketFee = marketFee↑;
}
```

- Owner can change the maximum transaction amount.

```
function setMaxTxPercent(uint256 maxTxPercent↑) external onlyOwner {
    require(
        maxTxPercent↑ > 10,
        "Cannot set transaction amount less than 10 percent!"
    );
    _maxTxAmount = (_tTotal * maxTxPercent↑) / 10**2;
}
```

- Owner can enable/disable fees.

```
ftrace | funcSig
function enableAllFees() external onlyOwner {
    restoreAllFee();
    _previousTaxFee = _taxFee;
    _previousBurnFee = _taxFee;
    _previousMarketFee = _marketFee;
    _previousLiquidityFee = _liquidityFee;
    setSwapAndLiquifyEnabled(true);
}

ftrace | funcSig
function disableAllFees() external onlyOwner {
    removeAllFee();
    setSwapAndLiquifyEnabled(false);
}
```

- Owner can change marketing wallet.

```
function setMarketingWallet(address newWallet↑) external onlyOwner {
    _marketingWallet = newWallet↑;
}
```

- Owner can change sell fee multiplier.

```
function setSellFeeMultiplier(uint256 newSellFeeMultiplier↑)
    external
    onlyOwner
{
    require(
        newSellFeeMultiplier↑ >= 150 && newSellFeeMultiplier↑ <= 300,
        "Multiplier has to be from 150 to 300"
    );
    emit UpdateSellFeeMultiplier(_sellFeeMultiplier, newSellFeeMultiplier↑);
    _sellFeeMultiplier = newSellFeeMultiplier↑;
}
```

- Owner can exclude from the fee.

```
function excludeFromFee(address account↑) public onlyOwner {
    _isExcludedFromFee[account↑] = true;
}
```

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

<https://app.unicrypt.network/amm/pancake-v2/pair/0xE9a645aAD486538Bcb5aA05171F61cb3E78AFa5a>

TechRate 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 Owner.



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