



Audit Report

Coinscope

November 2021

Type BEP20

Address 0xd41c4805a9a3128f9f7a7074da25965371ba50d5

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Contract Review

Contract Name	Coinscope
Compiler Version	v0.8.9+commit.e5eed63a
Optimization	200 runs
Licence	NONE
Explorer	https://bscscan.com/token/0xd41c4805a9a3128f9f7a7074da25965371ba50d5
Symbol	COINSCOPE
Decimals	18
Total Supply	100,000,000
Website	https://www.coinscope.co/

Audit Updates

Initial Audit	20th of November 2021
Corrected	

Contract Analysis

Pass	Description
	Contract Owner is not able to mint new tokens
	Contract Owner is not able to burn tokens from specific wallet
	Contract Owner is not able to increase fees more than a reasonable percent (10%)
	Contract Owner is not able to stop or pause transactions
	Contract Owner is not able to transfer tokens from specific address
	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	high
Location	https://bscscan.com/address/0xd41c4805a9a3128f9f7a7074da25965371ba50d5#code#L1370

Description

The contract owner has the authority to decrease the trading amount for all users excluding the owner. The owner may take advantage of it by setting the `_maxTxAmount` to zero.

```
if (from != owner() && to != owner())
    require(
        amount <= _maxTxAmount,
        "Transfer amount exceeds the maxTxAmount!"
    );
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

ELFM - Exceed Limit Fees Manipulation

Criticality

high

Location<https://bscscan.com/address/0xd41c4805a9a3128f9f7a7074da25965371ba50d5#code#L1167,L1171,L1643>

Description

The contract owner has the authority to increase over the allowed limit of 10%. The owner may take advantage of it by calling the `setTaxFeePercent` function with a high percentage value.

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

Recommendation

The contract could embody a check for the maximum acceptable value.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

ULTW - Unlimited Liquidity to Team Wallet

Criticality	high
Location	https://bscscan.com/address/0xd41c4805a9a3128f9f7a7074da25965371ba50d5#code#L1443

Description

The contract owner has the authority to transfer funds without limit to the team wallet. These funds have been swiped from the swap & liquify feature. The owner may take advantage of it by setting a high fee to the `_marketingLiquifyFee` variable.

```
uint256 TokensForMarketing = contractTokenBalance
    .mul(_marketingLiquifyFee)
    .div(_marketingLiquifyFee.add(_liquidityFee));
TokensForLiquidity = contractTokenBalance.sub(TokensForMarketing);
swapTokensForBnb(TokensForMarketing, marketingWallet);
```

Recommendation

The contract could embody a check for the maximum acceptable value.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Address	Library			
	isContract	Internal		

	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	✓	
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	geUnlockTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-

	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2R outer01	Interface			
	factory	External		-

	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-

Coinscope	Implementation	Context, IERC20, Ownable		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	tokenFromReflection	Private		
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_transferBothExcluded	Private	✓	
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setTaxFeePercent	External	✓	onlyOwner
	setLiquidityFeePercent	External	✓	onlyOwner
	setTaxFeePreviousPercent	External	✓	onlyOwner
	setLiquidityFeePreviousPercent	External	✓	onlyOwner
	setMaxTxPercent	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
	setTakeFeeEnabled	Public	✓	onlyOwner

	setMarketingLiquifyEnabled	Public	✓	onlyOwner
		External	Payable	-
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	_approve	Private	✓	
	_transfer	Private	✓	
	swapAndSendBNBToMarketing	Private	✓	
	swapTokensForBnb	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	takeBurn	Private	✓	
	takeMarketing	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	setMarketingWallet	External	✓	onlyOwner

	setMarketingFeePercent	External	✓	onlyOwner
	setMarketingLiquifyFeePercent	External	✓	onlyOwner
	setBurnFeePercent	External	✓	onlyOwner
	setMarketingFeePreviousPercent	External	✓	onlyOwner
	setBurnFeePreviousPercent	External	✓	onlyOwner
	setNumTokensSellToAddToLiquidity	External	✓	onlyOwner
	setMaxTxAmount	External	✓	onlyOwner
	setRouterAddress	Public	✓	onlyOwner
	beforePresale	External	✓	onlyOwner
	afterPresale	External	✓	onlyOwner

The diagram illustrates the flow of data and control within a smart contract, specifically focusing on the 'Coincscope' component. It maps out the interactions between various functions and variables, categorized by the type of call or contract state.

Legend:

- Internal Call (Green line)
- External Call (Orange line)
- Undefined Contract (Grey line)

Central Nodes and Connections:

- Transfer Functions:** A cluster of functions including `transferStandard`, `transferFromExcluded`, `transferToExcluded`, `transferBothExcluded` (highlighted in red), `restoreAllFee`, and `removeAllFee`. These are interconnected with `takeMarketing`, `takeBurn`, `reflectFee`, `getValues`, and `takeLiquidity`.
- Approval and Allowance Functions:** Includes `addLiquidity`, `decreaseAllowance`, `increaseAllowance`, `approve`, `owner`, `msgSender`, and `approve`. These connect to `allowance` and `allowance`.
- Swap and Liquidity Functions:** Includes `balanceOf`, `excludeFromReward`, `swapAndSendBNBToMarketing` (highlighted in red), `swapAndLiquidity`, `contractTokenBalance`, `marketingLiquidityFee`, `tokensVetLiquidity`, `swapExactTokensForETHSupportingFeeOnTransferTokens`, `IUniswapV2Router02`, `factory`, and `WETH`.
- Fee and Tax Functions:** Includes `setTaxFeePercent`, `setLiquidityFeePercent`, `setTaxFeePreviousPercent`, `setLiquidityFeePreviousPercent`, `afterPresale`, `setTakeFeeEnabled`, `setMarketingLiquidityEnabled`, `setMarketingWallet`, `setMarketingFeePercent`, `setMarketingLiquidityFeePercent`, `setBurnFeePercent`, `setMarketingFeePreviousPercent`, `setBurnFeePreviousPercent`, `setNumTokensSelfToAddToLiquidity`, `setMaxTaxAmount`, `beforePresale`, and `setMaxTaxPercent`.

Output Variables (Right Side):

- `tTransferAmount` (sub, mul)
- `tMarketing` (mul)
- `Transfer` (sub, div, sub)
- `getRate` (sub)
- `getValues` (calculateTaxFee, calculateLiquidityFee)
- `Approval` (sub)
- `allowance` (sub)
- `contractTokenBalance` (mul, sub)
- `marketingLiquidityFee` (add)
- `tokensVetLiquidity` (div, sub)
- `swapExactTokensForETHSupportingFeeOnTransferTokens` (sub)
- `IUniswapV2Router02` (factory, WETH)
- `factory` (WETH)
- `WETH` (sub)
- `allowance` (sub)
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- `swapExactTokensForETHSupportingFeeOnTransferTokens` (sub)
- `IUniswapV2Router02` (factory, WETH)
- `factory` (WETH)
- `WETH` (sub)
- `allowance` (sub)
- `contractTokenBalance` (mul, sub)
- `marketingLiquidity`

Domain Info

Domain Name	coinscope.co
Registry Domain ID	D7476DC67E1EC418691B0F14FB23F391A-NSR
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	whois.godaddy.com
Updated Date	2021-06-04T15:49:56Z
Creation Date	2021-05-27T15:32:10Z
Registry Expiry Date	2022-05-27T15:32:10Z
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain was created seven months before the creation of the audit. It will expire in one year.

There is public billing information available:

Organization: AVLOMO ENTERPRISES LTD

State/Province: Strovolos

Country: CY

Summary

There are some functions that can be abused by the owner, like manipulating fees, indirectly stopping the transactions and transferring funds to the team's wallet. A multi-wallet signing pattern or renouncing the ownership will eliminate all the contract threats.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Coinscope team disclaims any liability for the resulting losses.

About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>