Audit Report

OBRok Token

December 2021

Type	BEP20
Address	0x205afd08cefe438377a0abc5a20cb4462e1a8c5c
Audited by	© coinscope

Table of Contents

Contract Review

Contract Name	CoinToken
Compiler Version	v0.4.24+commit.e67f0147
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x205afd08cefe438377a0abc5a20cb4462e1a8c5c
Symbol	OBROK
Decimals	9
Total Supply	10,000,000,000,000
Source	contract.sol
Domain	obroktoken.com

Audit Updates

Initial Audit	27th December 2021
Corrected	

Contract Analysis

● Critical   ● Medium   ● Pass

Severity	Code	Description
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ST	Contract Owner is not able to pause transactions for everyone else except him
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	BC	Contract Owner is not able to blacklist wallets from selling

MT - Mint Tokens

Criticality	critical
Location	https://bscscan.com/address/0x205afd08cefe438377a0abc5a20cb4462e1a8c5c #code#L300

Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the `mint` function. As a result the contract tokens will be highly inflated and the team can abuse that to drain the liquidity and mass sell.

```
function mint(address account, uint256 amount) onlyOwner public {

    totalSupply = totalSupply.add(amount);
    balances[account] = balances[account].add(amount);
    emit Mint(address(0), account, amount);
    emit Transfer(address(0), account, amount);
}
```

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 renouncing ownership.

ELFM - Exceed Limit Fees Manipulation

Criticality	critical
Location	https://bscscan.com/address/0x205afd08cefe438377a0abc5a20cb4462e1a8c5c #code#L285

Description

The contract owner has the authority to increase fees over a reasonable limit. The owner may take advantage of it by calling the `updateFee` function with high percentage values.

```
    function updateFee(uint256 _txFee,uint256 _burnFee,address _FeeAddress)
onlyOwner public{
        txFee = _txFee;
        burnFee = _burnFee;
        FeeAddress = _FeeAddress;
    }
```

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 renouncing ownership.

BC - Blacklisted Contracts

Criticality	medium
Location	https://bscscan.com/address/0x205afd08cefe438377a0abc5a20cb4462e1a8c5c#code#L253

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the `blacklistAddress` function.

```
   function blackListAddress(address listAddress,  bool isBlackListed) public
whenNotPaused onlyOwner  returns (bool success) {
       return super._blackList(listAddress, isBlackListed);
  }
```

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 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**
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
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		
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	

	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	✓	
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	getUnlockTime	Public		-
	getTime	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	✓	-
IUniswapV2Router01	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	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	✓	-
	removeLiquidityETHWithPermitSuppo rtingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
BuyBackToke n	Implementation	Context, IERC20, Ownable		
	<Constructor>	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		-
	minimumTokensBeforeSwapAmount	Public		-
	buyBackUpperLimitAmount	Public		-
	deliver	Public	✓	-
	reflectionFromToken	Public		-

	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_approve	Private	✓	
	_transfer	Private	✓	
	swapTokens	Private	✓	lockTheSwap
	buyBackTokens	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	swapETHForTokens	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	_transferBothExcluded	Private	✓	
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setTaxFee	External	✓	onlyOwner
	setBuybackFee	External	✓	onlyOwner
	setMaxTxAmount	External	✓	onlyOwner
	setMarketingFee	External	✓	onlyOwner
	setNumTokensSellToAddToLiquidity	External	✓	onlyOwner
	setBuybackUpperLimit	External	✓	onlyOwner

	setMarketingAddress	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
	setBuyBackEnabled	Public	✓	onlyOwner
	presale	External	✓	onlyOwner
	transferToAddressETH	Private	✓	
	<Receive Ether>	External	Payable	-

Contract Flow
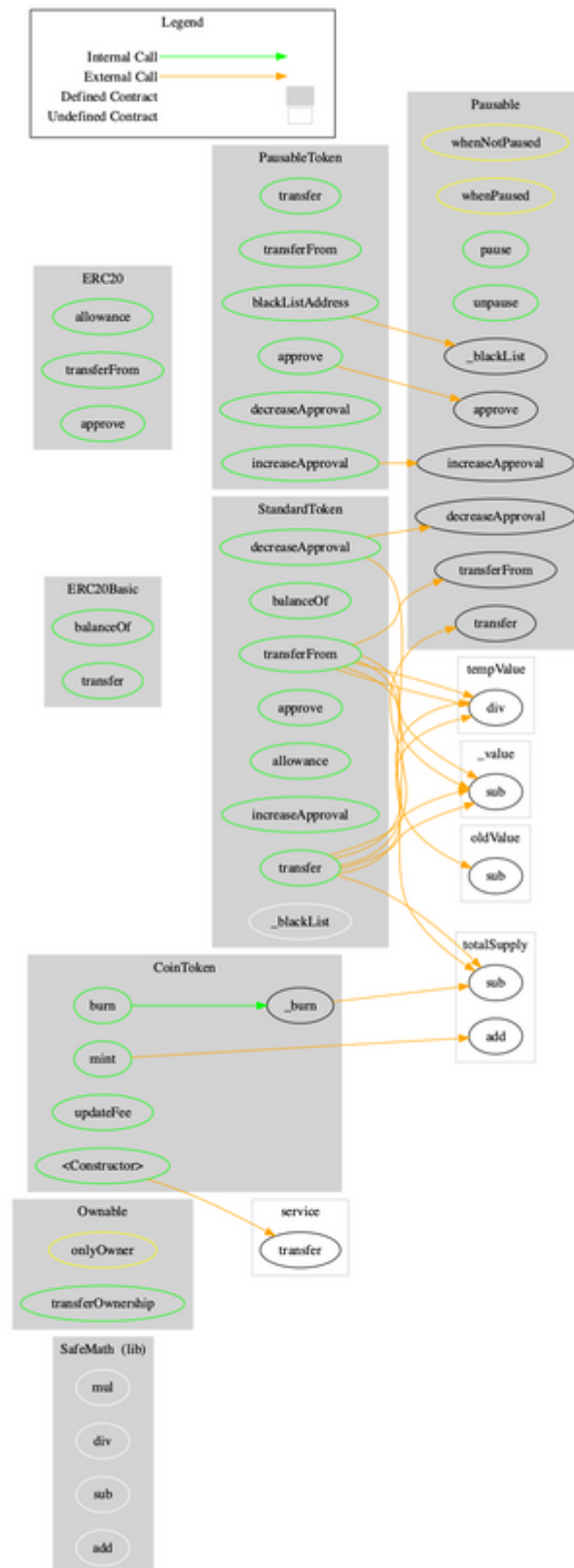
Domain Info

Domain Name	obroktoken.com
Registry Domain ID	2621900715_DOMAIN_COM-VRSN
Creation Date	2021-06-24T10:46:42Z
Updated Date	2021-11-09T14:11:48Z
Registry Expiry Date	2022-06-24T10:46:42Z
Registrar WHOIS Server	whois.isimtescil.net
Registrar URL	http://www.isimtescil.net
Registrar	Isimtescil Bilisim A.S.
Registrar IANA ID	3826

The domain was created 6 months before the analysis of the audit. It will expire in 6 months.

There is no public billing information, the creator is protected by the privacy settings.

Summary

OBRok Token is an interesting project with a friendly and growing community. The team mentions that they are working on space and aeronautical sciences and that they are trying to solve real problems. The contract analysis reported 2 critical and 1 medium severity issues. The owner has access to a mint function, he can also change the fees to any percent without limitations. Finally he can blacklist wallets from being able to sell/buy. A multi-wallet signing pattern will provide security against potential hacks. Renouncing 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.

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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