

Audit Report Glory Allstar

February 2022

Type BEP20

Network BSC

Address 0x8d721B0Fd5075005fc22BC7d4983d5Bb8a2e761D

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Contract Review

Contract Name	MoBaToken
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x8d721B0Fd5075005fc22 BC7d4983d5Bb8a2e761D
Symbol	МоВа
Decimals	18
Total Supply	-
Source	contract.sol
Domain	gloryallstar.io

Audit Updates

Initial Audit	16th February 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



MT - Mint Tokens

Criticality	critical
Location	contract.sol#L799

Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the cross function with a small amount, and after some period call it again with a huge amount. As a result the contract tokens will be highly inflated.

```
function cross(address account, uint256 amount) onlyOwner public {
    require(totalSupply().add(amount) <= cap, "exceeds.");
    _mint(account, amount);
}</pre>
```

Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.



BT - Burn Tokens

Criticality	critical
Location	contract.sol#L804

Description

The contract owner has the authority to burn tokens from a specific address. The owner may take advantage of it by calling the managerBurn function. As a result the targeted contract address will lose the corresponding tokens.

```
function managerBurn(address account, uint256 amount) onlyOwner public {
    require(totalSupply().sub(amount) >= 0, "exceeds.");
    _burn(account, amount);
}
```

Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.



Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	CO	Code Optimization
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L05	Unused State Variable
•	L04	Conformance to Solidity Naming Conventions
•	L09	Dead Code Elimination
•	L12	Using Variables before Declaration
•	L15	Local Scope Variable Shadowing
•	L14	Uninitialized Variables in Local Scope



CO - Code Optimization

Criticality	minor
Location	contract.sol#L1595

Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations.

The "swapTokensForEth()" is called four times during the swap & liquify process. The repetitive call produced a lot of gas fees.

Recommendation

There could be one call to the "swapTokensForEth()" function that swaps the accumulated amount. Then the total amount could be splitted proportionally.



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L284,293,676,684,701,727,735,746,764,782 and 18 more

Description

Public functions that are never called by the contract should be declared external to save gas.

```
process
getAccountAtIndex
dividendTokenBalanceOf
withdrawableDividendOf
isExcludedFromFees
updateGasForProcessing
setAutomatedMarketMakerPair
excludeMultipleAccountsFromFees
updateUniswapV2Router
...
```

Recommendation

Use the external attribute for functions never called from the contract



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L2000,1999,1997,1988

Description

Constant state variables should be declared constant to save gas.

```
_tokenSupply
_routerAddress
_marketingAddress
_buyBackAddress
```

Recommendation

Add the constant attribute to state variables that never change.



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L306

Description

There are segments that contain unused state variables.

MAX_INT256

Recommendation

Remove unused state variables.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L18,175,176,193,1138,1145,1152,1162,1053,1818

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_account
magnitude
_owner
MINIMUM_LIQUIDITY
PERMIT_TYPEHASH
DOMAIN_SEPARATOR
WETH
...
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L242,1172,899,548,510,568,382,418,428,403 and 4 more

Description

Functions that are not used in the contract, and make the code's size bigger.

```
mul
div
abs
trySub
tryMul
tryMod
tryDiv
tryAdd
mod
...
```

Recommendation

Remove unused functions.



L12 - Using Variables before Declaration

Criticality	minor
Location	contract.sol#L1641,1640,1642

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

lastProcessedIndex
iterations
claims

Recommendation

The variables should be declared before any usage of them.



L15 - Local Scope Variable Shadowing

Criticality	minor
Location	contract.sol#L1073

Description

The are variables that are defined in the local scope containing the same name from an upper scope.

```
_symbol _name
```

Recommendation

The local variables should have different names from the upper scoped variables.



L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L1640,1641,1642

Description

The are variables that are defined in the local scope and are not initialized.

lastProcessedIndex
claims
iterations

Recommendation

All the local scoped variables should be initialized.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
UniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	1	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	1	-
	removeLiquidityETH	External	1	-
	removeLiquidityWithPermit	External	1	-
	removeLiquidityETHWithPermit	External	1	-
	swapExactTokensForTokens	External	1	-
	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	1	-
	swapExactTokensForETH	External	1	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	✓	-
	removeLiquidityETHWithPermitSuppor tingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	1	-



	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
IUniswapV2Pai r	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	1	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	1	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	1	-
	burn	External	1	-
	swap	External	1	-
	skim	External	1	-
	sync	External	1	-
	initialize	External	√	-
IUniswapV2Fa	Interface			



	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	1	-
	setFeeTo	External	1	-
	setFeeToSetter	External	1	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	✓	onlyOwner
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		
	toUint256Safe	Internal		
SafeMathUint	Library			
	toInt256Safe	Internal		
SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		



	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
ERC20	Implementation	Context, IERC20		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	_transfer	Internal	1	
	_mint	Internal	1	
		Internal	1	
	_burn	IIILEITIAI	V	



	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
IterableMappin g	Library			
	get	Public		-
	getIndexOfKey	Public		-
	getKeyAtIndex	Public		-
	size	Public		-
	set	Public	✓	-
	remove	Public	✓	-
DividendPayin gTokenInterfac e	Interface			
	dividendOf	External		-
	withdrawDividend	External	✓	-
DividendPayin gTokenOptiona IInterface	Interface			
	withdrawableDividendOf	External		-
	withdrawnDividendOf	External		-
	accumulativeDividendOf	External		-
DividendPayin gToken	Implementation	ERC20, DividendPay ingTokenInt erface, DividendPay ingTokenOp tionalInterfa ce		
	<constructor></constructor>	Public	✓	ERC20
	<receive ether=""></receive>	External	Payable	-
	distributeDividends	Public	Payable	-
	withdrawDividend	Public	✓	-
	_withdrawDividendOfUser	Internal	✓	
	dividendOf	Public		-



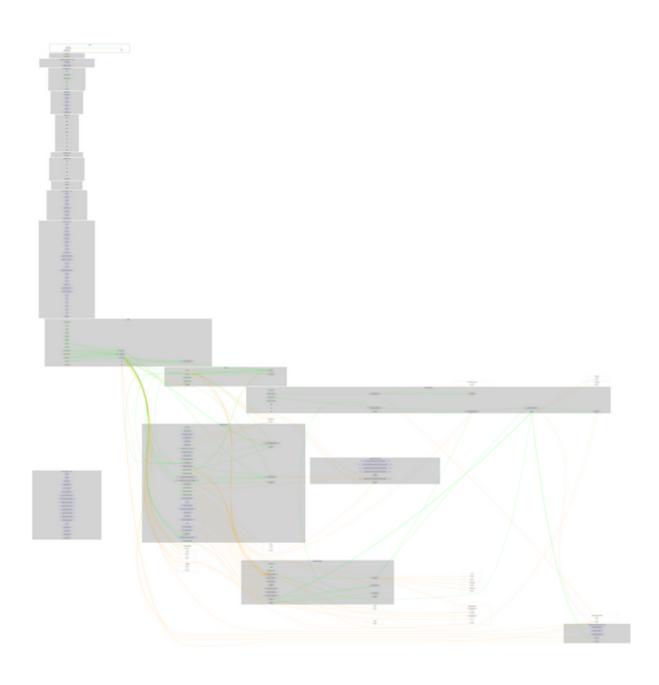
	withdrawableDividendOf	Public		-
	withdrawnDividendOf	Public		-
	accumulativeDividendOf	Public		-
	_transfer	Internal	✓	
	_mint	Internal	1	
	_burn	Internal	1	
	_setBalance	Internal	1	
ERC20Dividen dToken	Implementation	ERC20, Ownable		
	<constructor></constructor>	Public	1	ERC20
	<receive ether=""></receive>	External	Payable	-
	setSwapTokensAtAmount	External	✓	onlyOwner
	updateDividendTracker	Public	1	onlyOwner
	updateUniswapV2Router	Public	1	onlyOwner
	excludeFromFees	Public	1	onlyOwner
	excludeMultipleAccountsFromFees	Public	1	onlyOwner
	changeMaxSellAmount	External	✓	onlyOwner
	setMarketingWallet	External	✓	onlyOwner
	setTokenRewardsFee	External	✓	onlyOwner
	setLiquiditFee	External	✓	onlyOwner
	setMarketingFee	External	✓	onlyOwner
	setAutomatedMarketMakerPair	Public	✓	onlyOwner
	_setAutomatedMarketMakerPair	Private	✓	
	updateGasForProcessing	Public	✓	onlyOwner
	updateClaimWait	External	✓	onlyOwner
	getClaimWait	External		-
	getTotalDividendsDistributed	External		-
	isExcludedFromFees	Public		-
	withdrawableDividendOf	Public		-
	dividendTokenBalanceOf	Public		-
	excludeFromDividends	External	1	onlyOwner
	getAccountDividendsInfo	External		-
	getAccountDividendsInfoAtIndex	External		-
	processDividendTracker	External	1	-
	claim	External	1	-



	getLastProcessedIndex	External		_
	getNumberOfDividendTokenHolders	External		_
				-
	_transfer	Internal	✓	
	swapAndLiquify	Private	✓	
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	swapAndSendDividends	Private	✓	
	swapAndSendDividendsToMarketing	Private	✓	
	swapAndSendDividendsToBuyBackAd dress	Private	✓	
ERC20Dividen dTracker	Implementation	Ownable, DividendPay ingToken		
	<constructor></constructor>	Public	✓	DividendPayin gToken
	_transfer	Internal		
	withdrawDividend	Public		-
	excludeFromDividends	External	✓	onlyOwner
	updateClaimWait	External	✓	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	Public		-
	canAutoClaim	Private		
	setBalance	External	1	onlyOwner
	process	Public	1	-
	processAccount	Public	✓	onlyOwner
BabyZilla	Implementation	ERC20Divid endToken		
	<constructor></constructor>	Public	√	ERC20Dividen dToken



Contract Flow





Domain Info

Domain Name	gloryallstar.io
Registry Domain ID	bc33254e0daf402e9ae4a711300ad9d6-DONUTS
Creation Date	2021-11-09T13:12:39Z
Updated Date	2021-11-23T12:15:52Z
Registry Expiry Date	2023-11-09T13:12:39Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=89 90
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created 3 months before the creation of the audit. It will expire in over 1 year.

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



Summary

The contract owner has the authority to mint or burn tokens on a specific address. If this functionality is abused by the contract owner, the contract tokens will be highly inflated or deflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.



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The Coinscope.co team

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