

Audit Report TAC2.0

April 2022

Type BEP20

Network BSC

Address 0x8B5084f0c03e991D237b307467b7756fa7C93fCc

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Contract Review

Contract Name	TAC2
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x8b5084f0c03e991d237b 307467b7756fa7c93fcc
Symbol	TAC2
Decimals	9
Total Supply	100,000,000
Source	contract.sol
Domain	tac2.vercel.app

Audit Updates

Initial Audit	2nd May 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



ULTW - Unlimited Liquidity to Team Wallet

Criticality	minor
Location	contract.sol#L390,396

Description

The contract owner has the authority to transfer funds without limit to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling manualswap or manualsend function.

```
function manualswap() external {
    require(_msgSender() == _developmentAddress || _msgSender() ==
    _marketingAddress || _msgSender() == owner());
        uint256 contractBalance = balanceOf(address(this));
        swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(_msgSender() == _developmentAddress || _msgSender() ==
    _marketingAddress || _msgSender() == owner());
        uint256 contractETHBalance = address(this).balance;
        sendETHToFee(contractETHBalance);
}
```

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

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L05	Unused State Variable
•	L04	Conformance to Solidity Naming Conventions



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L108,114,179,183,187,191,199,204,208,213 and 6 more

Description

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

```
excludeMultipleAccountsFromFees
toggleSwap
setFee
setNewMarketingAddress
setNewDevAddress
rescueForeignTokens
transferFrom
approve
allowance
...
```

Recommendation

Use the external attribute for functions never called from the contract.



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L91,131,132

Description

Constant state variables should be declared constant to save gas.

```
_tFeeTotal
_rTotal
_previousOwner
```

Recommendation

Add the constant attribute to state variables that never change.



L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L91,125,132

Description

There are segments that contain unused state variables.

```
_tFeeTotal
_tOwned
_previousOwner
```

Recommendation

Remove unused state variables.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L34,290,296,303,291,375,130,140,141,142 and 2 more

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.

```
_decimals
_symbol
_name
_tTotal
_swapEnabled
_amount
_to
_tokenAddr
marketingAddressUpdated
...
```

Recommendation

Follow the Solidity naming convention.

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



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
IENG20		External		_
	totalSupply balanceOf	External		
				-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	√	-
Token	Interface			
	transferFrom	External	✓	-
	transfer	External	✓	-
IUniswapV2Fa ctory	Interface			
	createPair	External	✓	-
IUniswapV2Ro	Interface			
uter02				
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
Context	Implementation			
-	_msgSender	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		



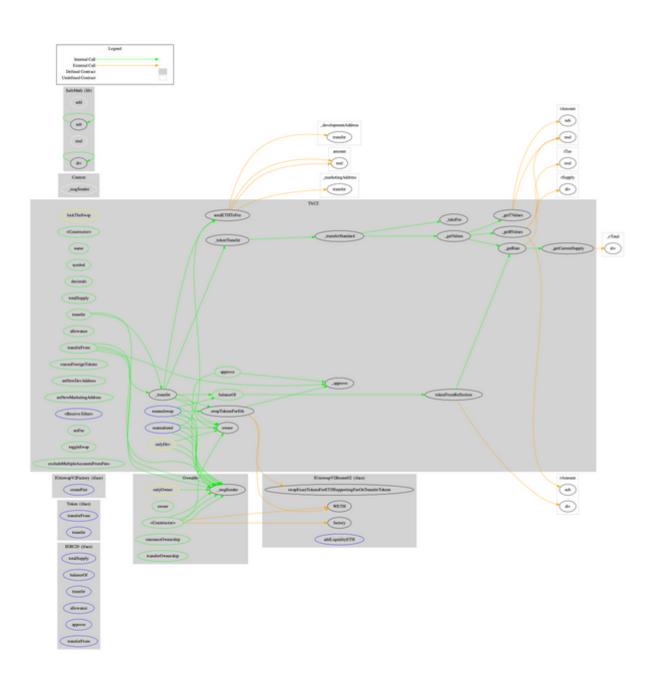
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
TAC2	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	1	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	tokenFromReflection	Private		
	_approve	Private	✓	
	_transfer	Private	1	
	swapTokensForEth	Private	1	lockTheSwap
	sendETHToFee	Private	√	
	_tokenTransfer	Private	√	
	rescueForeignTokens	Public	√	onlyDev
	setNewDevAddress	Public	✓	onlyDev
	setNewMarketingAddress	Public	1	onlyDev
	_transferStandard	Private	1	
	_takeFee	Private	1	
	<receive ether=""></receive>	External	Payable	-



_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
manualswap	External	1	-
manualsend	External	✓	-
setFee	Public	1	onlyDev
toggleSwap	Public	✓	onlyDev
excludeMultipleAccountsFromFees	Public	✓	onlyOwner



Contract Flow





Summary

TAC2.0 Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The ownership is present and the team can manually drain the contract's balance from accumulated fees. There is also a limit of max 6% fees.



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About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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.

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



The Cyberscope team

https://www.cyberscope.io