

Audit Report BitChain

September 2022

Type BEP20

Network BSC

Address 0x84EC718EFc361a1b246680F1dbE0Fb26045dCc16

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Contract Review

Contract Name	BitChain
Compiler Version	v0.8.16+commit.07a7930e
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x84EC718EFc361a1b24668 0F1dbE0Fb26045dCc16
Symbol	BitCh
Decimals	18
Total Supply	1,000,000,000
Domain	growrichtoken.io

Source Files

Filename	SHA256
contract.sol	41c1cf1faa0dff258a4a0b711b27444bdfcc919226c7c48e d8505d1ac7f287c3

Audit Updates

Initial Audit	22nd August 2022 https://github.com/cyberscope-io/audits/tree/main/v1/growrichz/mgb.pdf
Corrected phase 1	26th August 2022 https://github.com/cyberscope-io/audits/blob/main/v2/gr owrichz/audit.pdf
Corrected phase 2	29th August 2022



	https://github.com/cyberscope-io/audits/blob/main/v3/growrichz/audit.pdf
Corrected phase 4	2nd September 2022 https://github.com/cyberscope-io/audits/blob/main/v4/gr owrichz/audit.pdf
Corrected phase 5	14 September 2022

Contract Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

Contract Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	FSA	Fixed Swap Address	Acknowledged



FSA - Fixed Swap Address

Criticality	minor / informative
Location	contract.sol#L891
Status	Acknowledged

Description

The swap address is assigned once in the constructor and it can not be changed. The decentralized swaps sometimes create a new swap version or abandon the current. A contract that cannot change the swap address may not be able to catch-up the upgrade.

Recommendation

It could be better to allow the swap address mutation in case of future swap updates.

Updated 26 August 2022

The team has acknowledged that it is not a security issue.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	allPairsLength	External		-
	getPair	External		-
	allPairs	External		-
	createPair	External	1	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pa ir	Interface			
	symbol	External		-
	name	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	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-



	token1	External		
		Extornal		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Ro uter01	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	1	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro	Interface	IUniswapV2		



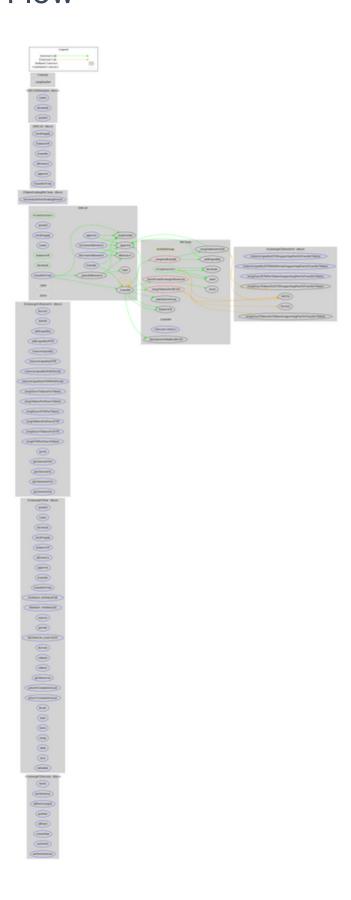
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
ITokenStaking BitChain	Interface			
	rescheduleNewStakingRound	External	✓	-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metad ata	Interface	IERC20		
	name	External		-
	decimals	External		-
	symbol	External		-
Context	Implementation			
	_msgSender	Internal		
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<constructor></constructor>	Public	✓	-
	symbol	External		-
	totalSupply	External		_



	name	External		-
	balanceOf	Public		-
	decimals	Public		-
	allowance	Public		-
	transfer	External	✓	-
	approve	External	✓	-
	transferFrom	External	✓	-
	decreaseAllowance	External	✓	-
	increaseAllowance	External	✓	-
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	1	
	_spendAllowance	Internal	1	
	_transfer	Internal	1	
BitChain	Implementation	ERC20		
	<constructor></constructor>	Public	1	ERC20
	_takeTaxGetSum	Private	1	
	_burnFromStrategicReserves	Private	1	
	_swapAndLiquify	Private	1	lockTheSwap
	_swapTokensForEth	Private	✓	
	_addLiquidity	Private	✓	
	_swapTokensForBUSD	Private	✓	lockTheSwap
	_distributeToWalletsBUSD	Private	✓	
	_transfer	Internal	✓	
	<receive ether=""></receive>	External	Payable	-



Contract Flow





Summary

BitChain is an interesting project that has a friendly and growing community. The ITokenStakingBitChain contract is out of the scope of this audit. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a fixed fee limit of 10%.



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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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io