

# Audit Report

# NFT Musix

August 2022

SHA256

8f62e484e8111781dbb5bada3aafae76b37555e4abf0be766a82c7352ccfe1a4

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#### **About Cyberscope**



## **Contract Review**

Contract Name	NFTMusix
Compiler Version	v0.8.11+commit.d7f03943
Optimization	0 runs
Testing Deploy	https://bscscan.com/token/0xd04b116098dd2648c8163 d46bB9493f6d1EDfa45
Symbol	\$Musix
Decimals	18
Total Supply	100,000,000
Domain	nftmusix.online

## Source Files

Filename	SHA256
contract.sol	8f62e484e8111781dbb5bada3aafae76b37555e4abf0be7 66a82c7352ccfe1a4

## **Audit Updates**

Initial Audit	27th August 2022
Corrected	

## **Contract Analysis**

Critical
 Medium
 Minor / Informative
 Pass

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
•	L01	Public Function could be Declared External	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



#### L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L294,593
Status	Unresolved

#### Description

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

transfer
enableTrading

#### Recommendation

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



# L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L33,387,112,113,114,115,116,130,136,142,143,144,145,146,158,174
Status	Unresolved

#### 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.

```
WETH
_antiSnipe
_antiBlock
startingSupply
_name
_symbol
_decimals
_tTotal
_taxRates
...
```

#### Recommendation

Follow the Solidity naming convention.

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



## L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L421,427,444,453
Status	Unresolved

#### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
_maxTxAmount = (_tTotal * percent) / divisor
_maxWalletSize = (_tTotal * percent) / divisor
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
piSwapPercent = priceImpactSwapPercent
```

#### Recommendation

Emit an event for critical parameter changes.



## L12 - Using Variables before Declaration

Criticality	minor
Location	contract.sol#L628
Status	Unresolved

#### 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.

check

#### Recommendation

The variables should be declared before any usage of them.



## L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L627,628
Status	Unresolved

#### Description

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

checked check

#### Recommendation

All the local scoped variables should be initialized.



## **Contract Functions**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	<b>√</b>	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	1	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	1	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		-

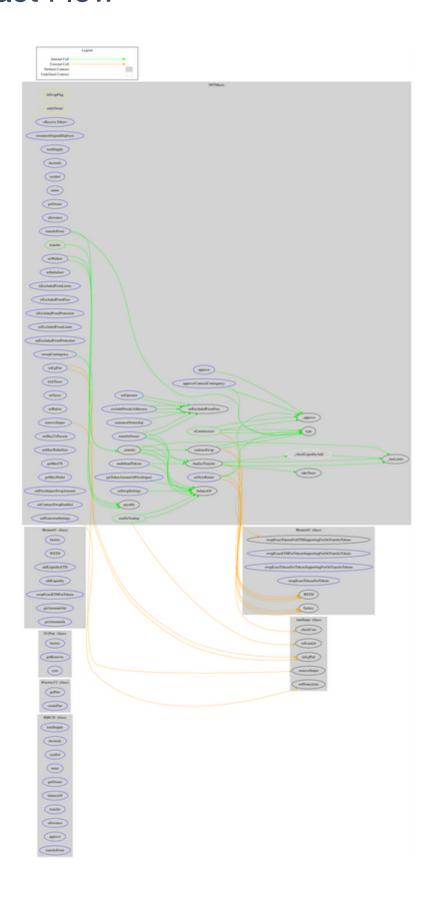
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	<b>√</b>	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	✓	-
AntiSnipe	Interface			
	checkUser	External	1	-
	setLaunch	External	1	-
	setLpPair	External	1	-
	setProtections	External	1	-
	removeSniper	External	1	-
NFTMusix	Implementation	IERC20		
	<constructor></constructor>	Public	Payable	-
	<receive ether=""></receive>	External	Payable	-
	transferOwner	External	1	onlyOwner
	renounceOwnership	External	<b>✓</b>	onlyOwner
	setOperator	External	✓	-
	renounceOriginalDeployer	External	1	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	allowance	External		-
	balanceOf	Public		-
	transfer	Public	1	-
	approve	External	1	-
	_approve	Internal	1	
	approveContractContingency	External	1	onlyOwner
	transferFrom	External	1	-



setNewRouter	External	/	onlyOwner
setLpPair	External	✓	onlyOwner
setInitializer	External	✓	onlyOwner
isExcludedFromLimits	External	•	-
isExcludedFromFees	External		_
isExcludedFromProtection	External		_
setExcludedFromLimits	External	<b>√</b>	onlyOwner
setExcludedFromFees			,
	Public	√	onlyOwner
setExcludedFromProtection	External	<b>✓</b>	onlyOwner
removeSniper	External	<b>✓</b>	onlyOwner
setProtectionSettings	External	✓	onlyOwner
lockTaxes	External	✓	onlyOwner
setTaxes	External	✓	onlyOwner
setRatios	External	✓	onlyOwner
setWallets	External	✓	onlyOwner
setMaxTxPercent	External	✓	onlyOwner
setMaxWalletSize	External	✓	onlyOwner
getMaxTX	External		-
getMaxWallet	External		-
getTokenAmountAtPriceImpact	External		-
setSwapSettings	External	✓	onlyOwner
setPriceImpactSwapAmount	External	✓	onlyOwner
setContractSwapEnabled	External	✓	onlyOwner
excludePresaleAddresses	External	✓	onlyOwner
_hasLimits	Internal		
_transfer	Internal	✓	
contractSwap	Internal	✓	inSwapFlag
_checkLiquidityAdd	Internal	✓	
enableTrading	Public	✓	onlyOwner
sweepContingency	External	✓	onlyOwner
multiSendTokens	External	✓	onlyOwner
finalizeTransfer	Internal	✓	
takeTaxes	Internal	✓	
I			



## **Contract Flow**



## Domain Info

Domain Name	nftmusix.online
Registry Domain ID	D309117922-CNIC
Creation Date	2022-07-14T11:08:05+00:00
Updated Date	2022-08-02T02:15:52+00:00
Registry Expiry Date	2023-07-14T23:59:59+00:00
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com/
Registrar	Go Daddy, LLC
Registrar IANA ID	146

The domain was created about 1 month before the creation of the audit. It will expire in 11 months.

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

## Summary

NFT Musix is an interesting project that has a friendly and growing community. 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 limit of max 25% fees.

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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.

