



Cyberscope

Audit Report

AllStarXI

April 2022

Type BEP20

Network BSC

Address 0x190745C3192cF2d2c389eE55438398e864aaE083

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Contract Review

Contract Name	ALLSTARXI
Compiler Version	v0.8.13+commit.abaa5c0e
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x190745C3192cF2d2c389eE55438398e864aaE083
Symbol	ASXI
Decimals	18
Total Supply	1,000,000,000
Domain	allstarxi.com

Source Files

Filename	SHA256
contract.sol	b09dae78bf68ffbc90df05026c98621478bfdbcf65dd14c8ef5b617a35ff9d2b

Audit Updates

Initial Audit	17th April 2022
Corrected	

Contract Analysis



The contract can change the addresses of the implementation interfaces using the `setInitialisers` method. This function can be used in a malicious way and could possibly even convert the contract to a honeypot. The audit will only focus on the visible code and not on the hidden and proxy functionalities.

● Critical ● Medium ● Minor ● Pass

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
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

BC - Blacklisted Contracts

Criticality	critical
Location	contract.sol#L432

Description

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

```
function setBlacklistEnabledMultiple(address[] memory accounts, bool enabled)
external onlyOwner {
    antiSnipe.setBlacklistEnabledMultiple(accounts, enabled);
    for(uint256 i = 0; i < accounts.length; i++){
        setDividendExcluded(accounts[i], enabled);
    }
}
```

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 temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic
●	L09	Dead Code Elimination
●	L11	Unnecessary Boolean equality
●	L12	Using Variables before Declaration
●	L14	Uninitialized Variables in Local Scope

L01 - Public Function could be Declared External

Criticality

minor

Location

contract.sol#L302,322,336,353,441,462,511,515,829,841,845

Description

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

```
addMultipleTokens  
addTokenToList  
getCurrentTokenLength  
getMaxWallet  
getMaxTX  
enableTrading  
isBlacklisted  
setNewRouter  
approveContractContingency  
...
```

Recommendation

Use the external attribute for functions never called from the contract

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L33,453,519,530,544,134,137,147,149,150,151,153,169,175,183,184,185,186,199,220

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.

```
_hasLiqBeenAdded  
_taxWallets  
masterTaxDivisor  
maxTransferTaxes  
maxSellTaxes  
maxBuyTaxes  
_ratios  
_taxRates  
_tTotal  
...
```

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#L501,506,524,535,544,549

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.

```
minimumHold = minimum * 10 ** _decimals
minimumBalance = _minimumBalance * 10 ** _balanceMultiplier
reflectorGas = gas
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
_maxWalletSize = (_tTotal * percent) / divisor
_maxTxAmount = (_tTotal * percent) / divisor
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality

minor

Location

contract.sol#L717

Description

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

```
_basicTransfer
```

Recommendation

Remove unused functions.

L11 - Unnecessary Boolean equality

Criticality

minor

Location

contract.sol#L366

Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
enabled == false
```

Recommendation

Remove the equality to the boolean constant.

L12 - Using Variables before Declaration

Criticality

minor

Location

contract.sol#L673

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#L672,673

Description

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

check
checked

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Type	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	✓	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	✓	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		-

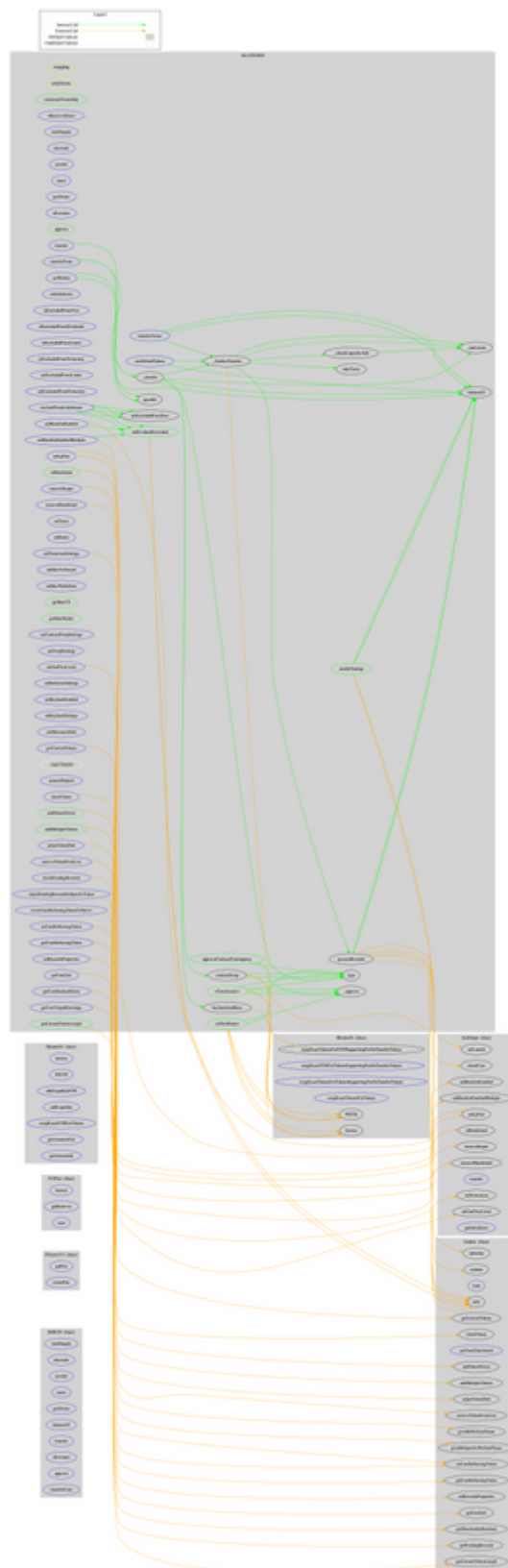
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	✓	-
AntiSnipe	Interface			
	checkUser	External	✓	-
	setLaunch	External	✓	-
	setLpPair	External	✓	-
	setProtections	External	✓	-
	setProtections	External	✓	-
	setGasPriceLimit	External	✓	-
	removeSniper	External	✓	-
	removeBlacklisted	External	✓	-
	isBlacklisted	External		-
	transfer	External	✓	-
	setBlacklistEnabled	External	✓	-
	setBlacklistEnabledMultiple	External	✓	-
	getInitializers	External		-
Cashier	Interface			
	setRewardsProperties	External	✓	-
	tally	External	✓	-
	load	External	Payable	-
	cashout	External	✓	-
	giveMeWelfarePlease	External	✓	-
	giveMeSpecificWelfarePlease	External	✓	-
	getTotalDistributed	External		-
	getUserInfo	External		-
	getShareholderRealized	External		-
	getPendingRewards	External		-

	initialize	External	✓	-
	addTokenToList	External	✓	-
	addMultipleTokens	External	✓	-
	adjustTokenPath	External	✓	-
	removeTokenFromList	External	✓	-
	getCurrentTokenLength	External		-
	getCurrentTokens	External		-
	checkToken	External		-
	setUserReflectingToken	External	✓	-
	getUserReflectingToken	External		-
ALLSTARXI	Implementation	IERC20		
	<Constructor>	Public	Payable	-
	transferOwner	External	✓	onlyOwner
	renounceOwnership	Public	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	_approve	Private	✓	
	approveContractContingency	Public	✓	onlyOwner
	transfer	External	✓	-
	transferFrom	External	✓	-
	setNewRouter	Public	✓	onlyOwner
	setLpPair	External	✓	onlyOwner
	setInitializers	External	✓	onlyOwner
	isExcludedFromFees	External		-
	isExcludedFromDividends	External		-
	isExcludedFromLimits	External		-
	isExcludedFromProtection	External		-

	setExcludedFromLimits	External	✓	onlyOwner
	setDividendExcluded	Public	✓	onlyOwner
	setExcludedFromFees	Public	✓	onlyOwner
	setExcludedFromProtection	External	✓	onlyOwner
	setBlacklistEnabled	External	✓	onlyOwner
	setBlacklistEnabledMultiple	External	✓	onlyOwner
	isBlacklisted	Public		-
	removeSniper	External	✓	onlyOwner
	removeBlacklisted	External	✓	onlyOwner
	setProtectionSettings	External	✓	onlyOwner
	setGasPriceLimit	External	✓	onlyOwner
	enableTrading	Public	✓	onlyOwner
	setTaxes	External	✓	onlyOwner
	setRatios	External	✓	onlyOwner
	setWallets	External	✓	onlyOwner
	setMaxTxPercent	External	✓	onlyOwner
	setMaxWalletSize	External	✓	onlyOwner
	getMaxTX	Public		-
	getMaxWallet	Public		-
	setContractSwapSettings	External	✓	onlyOwner
	setSwapSettings	External	✓	onlyOwner
	setRewardsProperties	External	✓	onlyOwner
	setReflectorSettings	External	✓	onlyOwner
	setBuybackEnabled	External	✓	onlyOwner
	setBuybackSettings	External	✓	onlyOwner
	setMinimumHold	External	✓	onlyOwner
	excludePresaleAddresses	External	✓	onlyOwner
	_hasLimits	Private		
	_transfer	Internal	✓	
	buybackAndBurn	Internal	✓	
	_finalizeTransfer	Internal	✓	
	processRewards	Internal	✓	
	_basicTransfer	Internal	✓	
	takeTaxes	Internal	✓	
	contractSwap	Internal	✓	swapping

	_checkLiquidityAdd	Private	✓	
	manualDeposit	External	✓	onlyOwner
	multiSendTokens	External	✓	onlyOwner
	getUserInfo	External		-
	getUserRealizedGains	External		-
	getUserUnpaidEarnings	External		-
	getCurrentTokenLength	Public		-
	getCurrentTokens	External		-
	checkToken	External		-
	addTokenToList	Public	✓	onlyOwner
	addMultipleTokens	Public	✓	onlyOwner
	adjustTokenPath	External	✓	onlyOwner
	removeTokenFromList	External	✓	onlyOwner
	claimPendingRewards	External	✓	-
	claimPendingRewardsInSpecificToken	External	✓	-
	setUserReflectingToken	External	✓	-
	revertUserReflectingTokenToNative	External	✓	-
	getUserReflectingToken	External		-

Contract Flow



Domain Info

Domain Name	allstarxi.com
Registry Domain ID	1683928176_DOMAIN_COM-VRSN
Creation Date	2011-10-25T09:09:48Z
Updated Date	2021-11-28T19:54:39Z
Registry Expiry Date	2022-10-25T09:09:48Z
Registrar WHOIS Server	whois.rrpproxy.net
Registrar URL	http://www.transip.nl
Registrar	Key-Systems GmbH
Registrar IANA ID	269

The domain has been created over 10 years before the creation of the audit. It will expire in 6 months.

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

Summary

AllStarXI is an interesting project that has a friendly and growing community. The Smart Contract analysis reported one issue. The contract owner has the authority to blacklist addresses. There is also a limit of max 20% fees.

The team can change the addresses of the two implementations that the contract is using, resulting in unpredicted and unaudited code to be used in the contract. Caution is advised

Disclaimer

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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>