Cyberscope

Audit Report

ISLIX

June 2022

Type	BEP20
Network	BSC
Address	0xa7582049357e59c2ea6f24e3fcac33669dad5158
Audited by	© cyberscope

Table of Contents

Table of Contents 1
Contract Review 3
Source Files 3
Audit Updates 3
Contract Analysis 4
ELFM - Exceed Limit Fees Manipulation 5
Description 5
Recommendation 5
Contract Diagnostics 6
CO - Code Optimization 7
Description 7
Recommendation 7
L01 - Public Function could be Declared External 8
Description 8
Recommendation 8
L02 - State Variables could be Declared Constant 9
Description 9
Recommendation 9
L04 - Conformance to Solidity Naming Conventions 10
Description 10
Recommendation 10
L07 - Missing Events Arithmetic 11
Description 11
Recommendation 11
L08 - Tautology or Contradiction 12
Description 12

Recommendation 12
L09 - Dead Code Elimination 13
Description 13
Recommendation 13
Contract Functions 14
Contract Flow 18
Domain Info 19
Summary 20
Disclaimer 21
About Cyberscope 22

Contract Review

Contract Name	DxBurnToken
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xa7582049357E59c2eA6F24e3FcaC33669dad5158
Symbol	ISX
Decimals	6
Total Supply	100,000,000
Domain	islixblackbank.com

Source Files

Filename	**SHA256**
contract.sol	aaad7e5f5567d35a4f6b23b445fd61dbde247cf8396c47441db860bfc9e179b0

Audit Updates

Initial Audit	20th June 2022
Corrected	

Contract Analysis

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

ELFM - Exceed Limit Fees Manipulation

Criticality	medium
Location	contract.sol#L825, 831, 836

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the `setTaxFeePercent` , `setDevFeePercent` and `setBurnFeePercent` functions. The `maxTaxFee`, `maxDevFee` and `maxBurnFee` are fixed to 10%. Hence, the maximum total fee percentage that can be set is 30%.

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    require(taxFee >= 0 && taxFee <=maxTaxFee,"taxFee out of range");
    _taxFee = taxFee;
}
```

```
function setDevFeePercent(uint256 devFee) external onlyOwner() {
    require(devFee >= 0 && devFee <=maxDevFee,"teamFee out of range");
    _devFee = devFee;
}
```

```
function setBurnFeePercent(uint256 burnFee) external onlyOwner() {
    require(burnFee >= 0 && burnFee <=maxBurnFee,"teamFee out of range");
    _burnFee = burnFee;
}
```

Recommendation

The contract could embody a check for not allowing setting the total fees over 25%.

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
	CO	Code Optimization
	L01	Public Function could be Declared External
	L02	State Variables could be Declared Constant
	L04	Conformance to Solidity Naming Conventions
	L07	Missing Events Arithmetic
	L08	Tautology or Contradiction
	L09	Dead Code Elimination

CO - Code Optimization

Criticality	minor
Location	contract.sol#L637, 884

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 contract has declared the empty _excluded variable and it does not change.

```
address[] private _excluded;
```

Hence, In the following code segment, the for-loop will never be iterated.

```
for (uint256 i = 0; i < _excluded.length; i++) {
            if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] >
tSupply) return (_rTotal, _tTotal);
            rSupply = rSupply.sub(_rOwned[_excluded[i]]);
            tSupply = tSupply.sub(_tOwned[_excluded[i]]);
        }
```

Recommendation

Rewrite some code segments so the runtime will be more performant.

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L593,601,698,702,706,710,714,719,724,728,733,739,744,749,753,757,761,765,774,810,821,937,1069,1083

Description

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

```
enableFees
disableFees
isExcludedFromFee
burn
replaceDevWalletAddress
reflectionFromToken
deliver
totalDev
totalBurn
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L621,645

Description

Constant state variables should be declared constant to save gas.

```
mintedByDxsale
dead
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L801,810,821,901,907,913,638,643,644,650,653,656,661

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.

```
_maxTxAmount
_burnFee
_devFee
_taxFee
_tBurnTotal
_tDevTotal
_devWalletAddress
_amount
_value
...
```

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#L825,831,836,843

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.mul(maxTxPercent).div(10 ** 2)
_burnFee = burnFee
_devFee = devFee
_taxFee = taxFee
```

Recommendation

Emit an event for critical parameter changes.

L08 - Tautology or Contradiction

Criticality	minor
Location	contract.sol#L825,831,836

Description

Detects expressions that are tautologies or contradictions. For instance, an uint variable will always be greater than or equal to zero.

```
require(bool,string)(burnFee >= 0 && burnFee <= maxBurnFee,teamFee out of
range)
require(bool,string)(devFee >= 0 && devFee <= maxDevFee,teamFee out of range)
require(bool,string)(taxFee >= 0 && taxFee <= maxTaxFee,taxFee out of range)
```

Recommendation

Fix the incorrect comparison by changing the value type or the comparison.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L408,418,437,451,497,507,470,480,359,383,524

Description

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

```
verifyCallResult
sendValue
isContract
functionStaticCall
functionDelegateCall
functionCallWithValue
functionCall
...
```

Recommendation

Remove unused functions.

Contract Functions

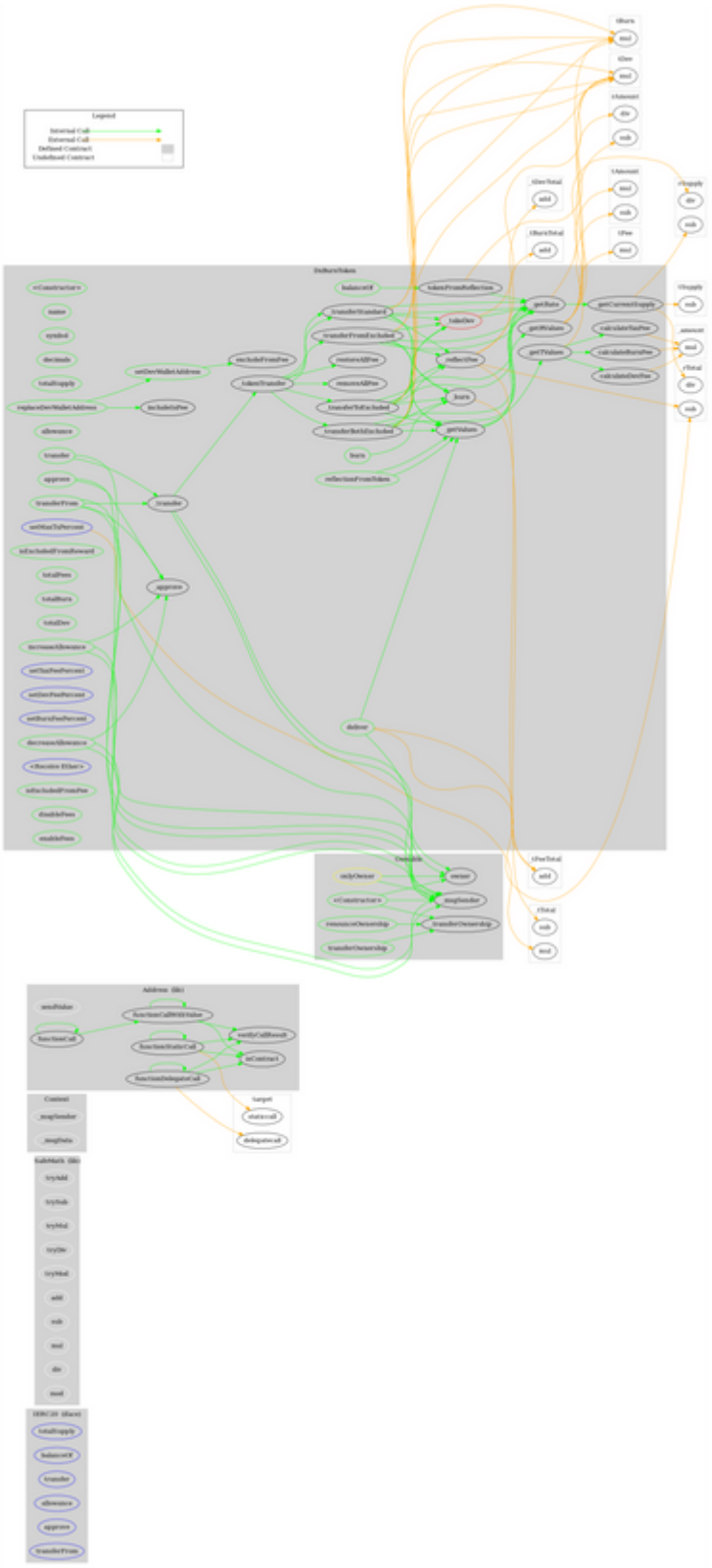
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
	sub	Internal		
	div	Internal		
	mod	Internal		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Address	Library			
	isContract	Internal		

	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	verifyCallResult	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
DxBurnToken	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	totalBurn	Public		-

	totalDev	Public		-
	deliver	Public	✓	-
	reflectionFromToken	Public		-
	tokenFromReflection	Public		-
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setDevWalletAddress	Public	✓	onlyOwner
	replaceDevWalletAddress	Public	✓	onlyOwner
	burn	Public	✓	-
	setTaxFeePercent	External	✓	onlyOwner
	setDevFeePercent	External	✓	onlyOwner
	setBurnFeePercent	External	✓	onlyOwner
	setMaxTxPercent	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeDev	Private	✓	
	calculateTaxFee	Private		
	calculateDevFee	Private		
	calculateBurnFee	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	_burn	Private	✓	
	_approve	Private	✓	
	_transfer	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	_transferBothExcluded	Private	✓	
	_reflectFee	Private	✓	

	disableFees	Public	✓	onlyOwner
	enableFees	Public	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	islixblackbank.com
Registry Domain ID	2695121992_DOMAIN_COM-VRSN
Creation Date	2022-05-10T11:57:34Z
Updated Date	2022-05-10T11:57:35Z
Registry Expiry Date	2024-05-10T11:57:34Z
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created about 1 month before the creation of the audit. It will expire in almost 2 years.

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

Summary

The Smart Contract analysis reported one medium severity issue. The contract owner has the authority to manipulate the fees. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. The maximum fee percentage that can be set is 30%.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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The Cyberscope team disclaims any liability for the resulting losses.

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