



Cyberscope

Audit Report

Stylike Governance

September 2022

Type BEP20

Network BSC

Address 0xd1e756a5868fcf56a01befc41a8163a6b4f67f43

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Contract Review

Contract Name	StylikeToken
Compiler Version	v0.8.16+commit.07a7930e
Optimization	200 runs
Explorer	https://bscscan.com/token/0xd1e756a5868fcf56a01befc41a8163a6b4f67f43
Symbol	STYL
Decimals	18
Total Supply	1,000,000,000
Domain	https://stylike.io

Audit Updates

Initial Audit	5th September 2022
Corrected	

Source Files

Filename	SHA256
access/Ownable.sol	9353af89436556f7ba8abb3f37a6677249aa4df6024fbfaa94f79ab2f44f3231
interfaces/IUniswapV2Factory.sol	0238f695d2b038c1ee062a2c9cf746f7b7f94eb2350ef33bd99d6d092c5e5fce
interfaces/IUniswapV2Pair.sol	ef81ff4ae7621583be042894b8434f44b16c2be7aa6e6e4d414a66dd40cc1611
interfaces/IUniswapV2Router02.sol	34bbb04966518a0c4e83c6843896f10efb404348a5993ceb38edcc607c617cf1
StylikeToken.sol	e4a768c672e1d925b2202702447374ce91d8895630189cade3c30beec30b7f18
token/ERC20/ERC20.sol	9224c292940b449ce4d662ff73ce8ca4a1566598cbdcdb52b6b22ed0279226e8c
token/ERC20/extensions/IERC20Metadata.sol	5b78666f2ead89df5067bf87e6be32088c560a5025130a9b990c81f64e3164b2
token/ERC20/IERC20.sol	747947bc991f385c41d163d3bdeb19baba91c1f115e7ab1670de301f0ffb84f1
utils/Context.sol	037d8eb3da306a6727baac3adffc1d8932e3cd4f44e55552d4937db1734f0372

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
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Contract Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	CO	Code Optimization	Unresolved
●	L01	Public Function could be Declared External	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L07	Missing Events Arithmetic	Unresolved
●	L11	Unnecessary Boolean equality	Unresolved
●	L13	Divide before Multiply Operation	Unresolved
●	L15	Local Scope Variable Shadowing	Unresolved

CO - Code Optimization

Criticality	minor / informative
Location	contract.sol#L24
Status	Unresolved

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 variable minBuyAmount is not used in the contract's implementation.

```
uint256 public minBuyAmount = .1 ether;
```

Recommendation

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

L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contracts/StylikeToken.sol#L164,345
Status	Unresolved

Description

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

```
isExcludedFromFees  
getPurchaseAmount
```

Recommendation

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

L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contracts/StylikeToken.sol#L177,187,178,336,149,188,427,53
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.

```
_operationsFee  
_liquidityFee  
_enabled  
_presaleAddress  
_operationsAddress  
_isExcludedMaxTransactionAmount
```

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 / informative
Location	contracts/StylikeToken.sol#L176,340,465,447,186
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.

```
sellOperationsFee = _operationsFee  
swapTokensAtAmount = newAmount  
minBuyAmount = minBuy  
buyOperationsFee = _operationsFee
```

Recommendation

Emit an event for critical parameter changes.

L11 - Unnecessary Boolean equality

Criticality	minor / informative
Location	contracts/StylikeToken.sol#L157
Status	Unresolved

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.

```
require(bool,string)(_isExcludedFromFees[account] != false,Account is already the value of 'excluded')
```

Recommendation

Remove the equality to the boolean constant.

L13 - Divide before Multiply Operation

Criticality	minor / informative
Location	contracts/StylikeToken.sol#L202
Status	Unresolved

Description

Performing divisions before multiplications may cause lose of prediction.

```
fees = (amount * (buyTotalFees)) / FEE_DENOMINATOR
tokensForOperations += (fees * sellOperationsFee) / sellTotalFees
tokensForLiquidity += (fees * sellLiquidityFee) / sellTotalFees
```

Recommendation

The multiplications should be prior to the divisions.

L15 - Local Scope Variable Shadowing

Criticality	minor / informative
Location	contracts/StylikeToken.sol#L90
Status	Unresolved

Description

There are variables that are defined in the local scope containing the same name from an upper scope.

```
totalSupply
```

Recommendation

The local variables should have different names from the upper scoped variables.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-

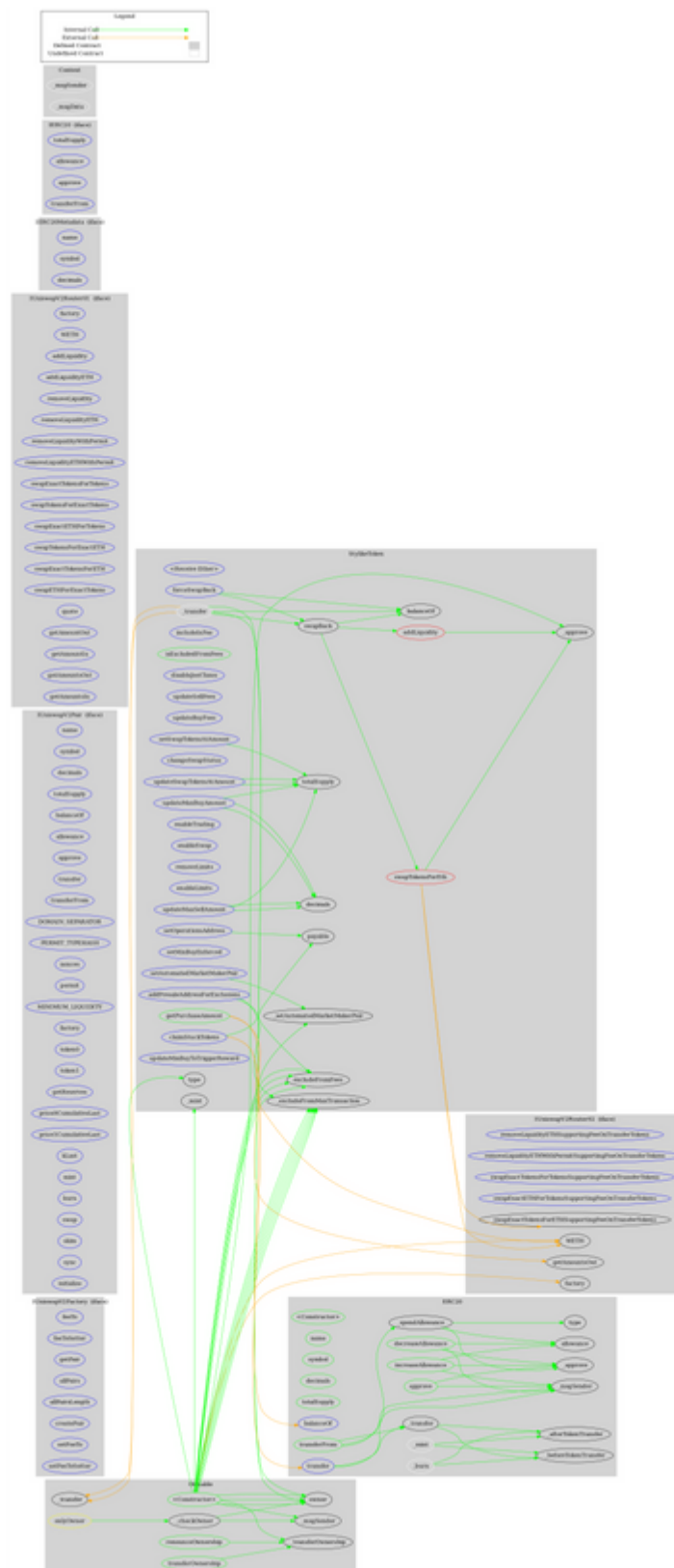
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Router01	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	✓	-

	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
StylikeToken	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	<Receive Ether>	External	Payable	-
	setAutomatedMarketMakerPair	External	✓	onlyOwner
	_setAutomatedMarketMakerPair	Private	✓	
	excludeFromFees	Public	✓	onlyOwner
	addPresaleAddressForExclusions	External	✓	onlyOwner
	includeInFee	External	✓	onlyOwner
	isExcludedFromFees	Public		-
	disableJeetTaxes	External	✓	onlyOwner
	updateSellFees	External	✓	onlyOwner
	updateBuyFees	External	✓	onlyOwner
	_excludeFromMaxTransaction	Private	✓	
	_transfer	Internal	✓	
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	

	changeSwapStatus	External	✓	onlyOwner
	setSwapTokensAtAmount	External	✓	onlyOwner
	getPurchaseAmount	Public		-
	swapBack	Private	✓	
	enableTrading	External	✓	onlyOwner
	enableSwap	External	✓	onlyOwner
	removeLimits	External	✓	onlyOwner
	enableLimits	External	✓	onlyOwner
	claimStuckTokens	External	✓	onlyOwner
	setOperationsAddress	External	✓	onlyOwner
	setMinBuyEnforced	External	✓	onlyOwner
	forceSwapBack	External	✓	onlyOwner
	updateSwapTokensAtAmount	External	✓	onlyOwner
	updateMaxBuyAmount	External	✓	onlyOwner
	updateMaxSellAmount	External	✓	onlyOwner
	updateMinBuyToTriggerReward	External	✓	onlyOwner
ERC20	Implementation	Context, IERC20, IERC20Met adata		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	

	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		

Contract Flow



Domain Info

Domain Name	stylike.io
Registry Domain ID	c74b80508494470e9dd04feedd369e3e-DONUTS
Creation Date	2022-07-07T12:24:44Z
Updated Date	2022-07-13T08:58:26Z
Registry Expiry Date	2024-07-07T12:24:44Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=8990
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain was created about 2 months 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

Stylike Governance Token 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 20% fees on sell transactions and a limit of max 10% on buy transactions.

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

Cyberscope 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>