



# Audit Report

## **Streeth**

April 2022

Type	ERC20
Network	ETH
Address	0xB840d10D840eF47c233FEC1fd040F5B145a6DfA5
Audited by	© coinscope

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## Contract Review

<b>Contract Name</b>	STREETH
<b>Compiler Version</b>	v0.8.6+commit.11564f7e
<b>Optimization</b>	200 runs
<b>Licence</b>	None
<b>Explorer</b>	<a href="https://etherscan.io/token/0xB840d10D840eF47c233FEC1fd040F5B145a6DfA5">https://etherscan.io/token/0xB840d10D840eF47c233FEC1fd040F5B145a6DfA5</a>
<b>Symbol</b>	STREETH
<b>Decimals</b>	18
<b>Total Supply</b>	300,000,000
<b>Source</b>	contract.sol
<b>Domain</b>	streeth.io

## Audit Updates

<b>Initial Audit</b>	3rd January 2022
<b>Corrected</b>	8 April 2022

# Contract Analysis



The contract imports and implements an unverified contract

<https://etherscan.io/address/0x346E0Ca75bA94B42acD4E551551aa3e60E613137>

Hence the scope of the audit will be limited to the code implemented on the Streeth contract and not take account of the unverified contract.

● 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

# 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
●	L05	Unused State Variable
●	L09	Dead Code Elimination
●	L07	Missing Events Arithmetic

## CO - Code Optimization

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L324

### 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 `feeRates` structure is only used in the `_getTValues` method. It is always divided by the number `100`. The contract could avoid the repetitive calculation by initializing the `rfi` and `marketing` variables to the number `100`. Then, the fees calculation statement could be expressed with two calculations instead of three.

Before

```
s.tRfi = tAmount*feeRates.rfi/100;  
s.tMarketing = tAmount*feeRates.marketing/100;
```

After

```
s.tRfi = tAmount/feeRates.rfi;  
s.tMarketing = tAmount/feeRates.marketing;
```

### Recommendation

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



## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L308,312,424,427,430,434,443,448,452,457,465,470,477,481,520,524,529

### Description

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

```
isExcludedFromFee  
includeInFee  
excludeFromFee  
reflectionFromToken  
isExcludedFromReward  
decreaseAllowance  
increaseAllowance  
transferFrom  
approve  
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L361

### Description

Constant state variables should be declared constant to save gas.

```
_tTotal
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L105,149,154,155,174,183,197,211,215,219,223,227,231,235,330,371,387,679,688,691,358,366,367

### 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.

```
_symbol  
_name  
_decimals  
_holder  
token_balanceOf  
_amount  
_to  
_from  
token_transfer  
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L05 - Unused State Variable

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L121,123,124,125,126,127

### Description

There are segments that contain unused state variables.

```
TRADERJOE  
PANGOLIN  
SUSHISWAP  
QUICKSWAP  
PANCAKESWAP  
HUNDRED_PERCENT
```

### Recommendation

Remove unused state variables.

## L07 - Missing Events Arithmetic

**Criticality**

minor

**Location**

contract.sol#L675

### 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.

```
swapTokensAtAmount = amount * 10 ** _decimals
```

### Recommendation

Emit an event for critical parameter changes.

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L507,219,211,223,160,156,166,155,154,159,157,158

### Description

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

```
uniswapVersion  
uniswapVariety  
uniswapFactory  
token_transfer  
token_balanceOf  
protectionChecker  
protectionAdminCheck  
counterToken  
blockPassed  
...
```

### Recommendation

Remove unused functions.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
UniswapV2Library	Library			
	sortTokens	Internal		
	pairFor	Internal		
UniswapV3Library	Library			
	getPoolKey	Internal		
	computeAddress	Internal		
IPLPS	Interface			
	LiquidityProtection_beforeTokenTransfer	External	✓	-
	isBlocked	External		-
	unblock	External	✓	-
UsingLiquidityProtectionService	Implementation			
	<Constructor>	Public	✓	-
	LiquidityProtection_setLiquidityProtectionService	External	✓	onlyProtectionAdmin
	token_transfer	Internal	✓	
	token_balanceOf	Internal		
	protectionAdminCheck	Internal		
	uniswapVariety	Internal		
	uniswapVersion	Internal		
	uniswapFactory	Internal		
	counterToken	Internal		
	uniswapV3Fee	Internal		
	protectionChecker	Internal		

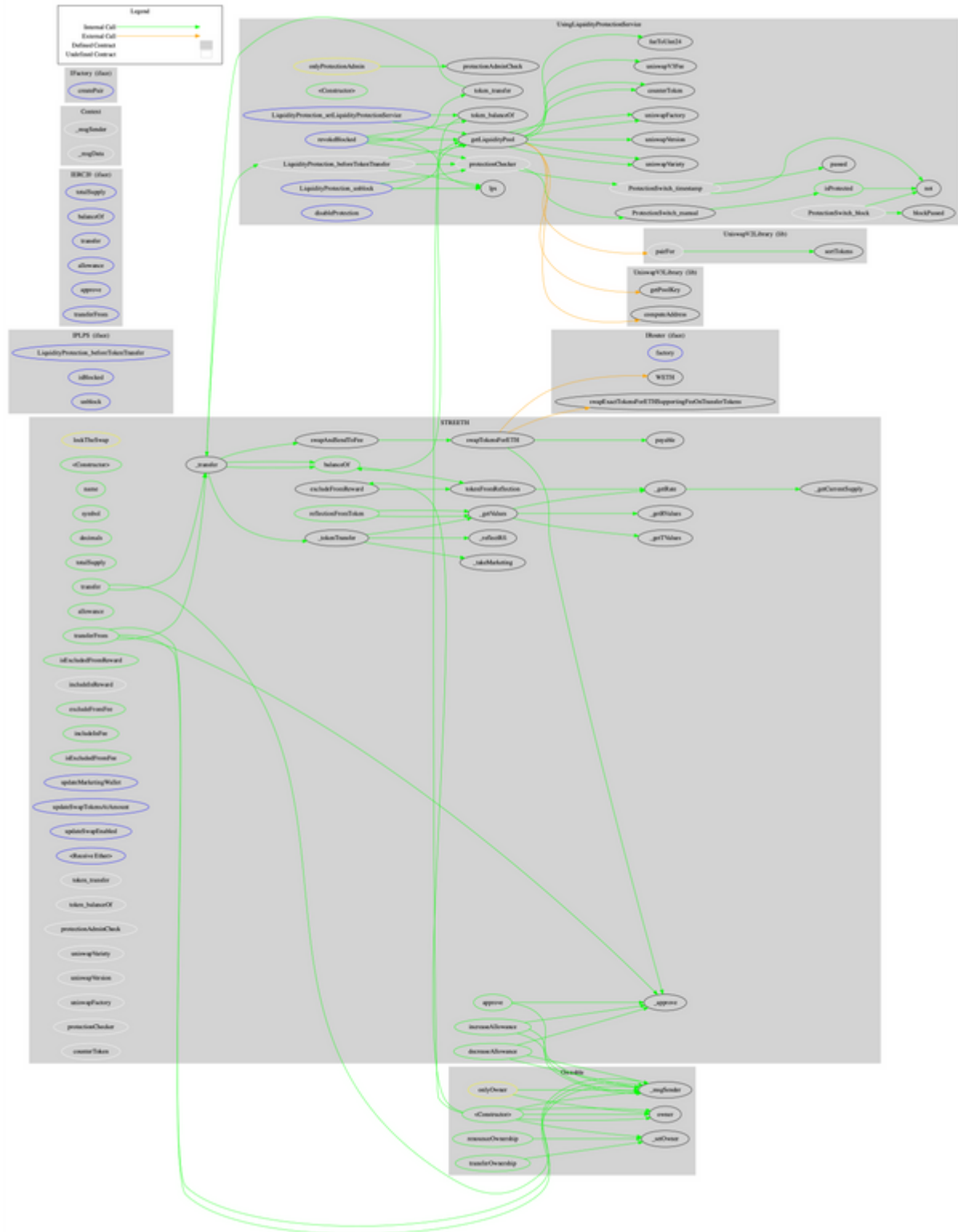
	lps	Private		
	LiquidityProtection_beforeTokenTransfer	Internal	✓	
	revokeBlocked	External	✓	onlyProtection Admin
	LiquidityProtection_unblock	External	✓	onlyProtection Admin
	disableProtection	External	✓	onlyProtection Admin
	isProtected	Public		-
	ProtectionSwitch_manual	Internal		
	ProtectionSwitch_timestamp	Internal		
	ProtectionSwitch_block	Internal		
	blockPassed	Internal		
	passed	Internal		
	not	Internal		
	feeToUint24	Internal		
	getLiquidityPool	Public		-
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	



<b>IFactory</b>	Interface			
	createPair	External	✓	-
<b>IRouter</b>	Interface			
	factory	External		-
	WETH	External		-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>STREETH</b>	Implementation	Context, IERC20, Ownable, UsingLiquidityProtectionService		
	<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		-
	reflectionFromToken	Public		-
	tokenFromReflection	Public		-
	excludeFromReward	Internal	✓	
	includeInReward	Internal	✓	
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	isExcludedFromFee	Public		-
	_reflectRfi	Private	✓	

	_takeMarketing	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_approve	Private	✓	
	_transfer	Private	✓	
	_tokenTransfer	Private	✓	
	swapAndSendToFee	Private	✓	lockTheSwap
	swapTokensForETH	Private	✓	
	updateMarketingWallet	External	✓	onlyOwner
	updateSwapTokensAtAmount	External	✓	onlyOwner
	updateSwapEnabled	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	token_transfer	Internal	✓	
	token_balanceOf	Internal		
	protectionAdminCheck	Internal		onlyOwner
	uniswapVariety	Internal		
	uniswapVersion	Internal		
	uniswapFactory	Internal		
	protectionChecker	Internal		
	counterToken	Internal		

# Contract Flow



## Domain Info

<b>Domain Name</b>	streeth.io
<b>Registry Domain ID</b>	1765dd1fb3d64fbfa9a1fc7456f515e1-DONUTS
<b>Creation Date</b>	2021-03-21T21:56:05Z
<b>Updated Date</b>	2021-09-12T16:23:50Z
<b>Registry Expiry Date</b>	2022-03-21T21:56:05Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="https://www.namecheap.com/">https://www.namecheap.com/</a>
<b>Registrar</b>	NameCheap, Inc.
<b>Registrar IANA ID</b>	1068

The domain has been created 12 months before the creation of the audit. It will expire in 3 months.

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

# Summary

Streeth is aiming to curate, mint and auction iconic Street Art NFTs by world renowned street artists. The token has a friendly and growing community. The contract analysis reported no compiler errors and threat issues. There are some informative comments that do not affect the contract security.

Caution is advised as the contract is importing and implementing an unverified library and the scope of the audit is limited to the visible code.

## Disclaimer

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## About Coinscope

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.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>