

Audit Report

Streeth

April 2022

Type	ERC20
Network	ETH
Address	0xB840d10D840eF47c233FEC1fd040F5B145a6DfA5
Audited by	© coinscope

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Contract Review

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

Audit Updates

Initial Audit	3rd January 2022
Corrected	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

Criticality	minor
Location	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

Criticality	minor
Location	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

Criticality	minor
Location	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

Criticality	minor
Location	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

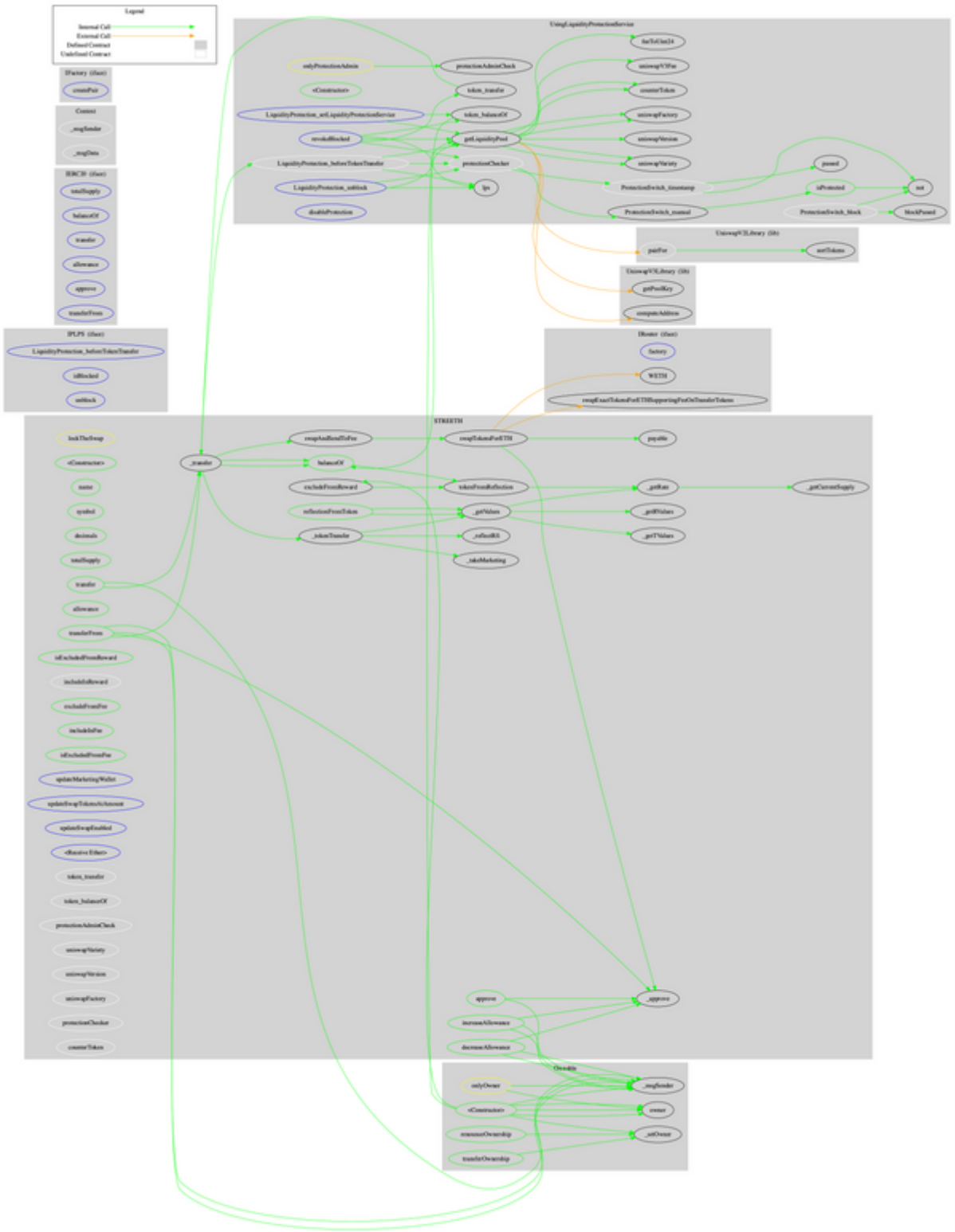
Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
UniswapV2Library	Library			
	sortTokens	Internal		
	pairFor	Internal		
UniswapV3Library	Library			
	getPoolKey	Internal		
	computeAddress	Internal		
IPLPS	Interface			
	LiquidityProtection_beforeTokenTransfer	External	✓	-
	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	✓	onlyProtectionAdmin
	LiquidityProtection_unblock	External	✓	onlyProtectionAdmin
	disableProtection	External	✓	onlyProtectionAdmin
	isProtected	Public		-
	ProtectionSwitch_manual	Internal		
	ProtectionSwitch_timestamp	Internal		
	ProtectionSwitch_block	Internal		
	blockPassed	Internal		
	passed	Internal		
	not	Internal		
	feeToUint24	Internal		
	getLiquidityPool	Public		-
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	

IFactory	Interface			
	createPair	External	✓	-
IRouter	Interface			
	factory	External		-
	WETH	External		-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
STREETH	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

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

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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About Coinscope

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The Coinscope.co team

https://www.coinscope.co



Audit Report

Streeth

January 2022

Type	ERC20
Network	ETH
Address	0x01A4efF52864274aB8180bC519cf002Cc414077c
Audited by	© coinscope

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Contract Review

Contract Name	STREETH
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	None
Explorer	https://etherscan.io/token/0x01A4efF52864274aB8180bC519cf002Cc414077c
Symbol	STREETH
Decimals	9
Total Supply	300,000,000
Source	contract.sol
Domain	streeth.io

Audit Updates

Initial Audit	3rd January 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
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●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
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Critical Medium Minor

Severity	Code	Description
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CO - Code Optimization

Criticality	minor
Location	contract.sol#L324

Description

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Before

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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

Criticality	minor
Location	contract.sol#L292,L287,L283 and 14 more

Description

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

```
isExcludedFromFee
includeInFee
excludeFromFee
...
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L124

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

Criticality	minor
Location	contract.sol#L130,L129,L121 and 4 more

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
...
```

Recommendation

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

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L270,L47

Description

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

```
includeInReward
_msgData
```

Recommendation

Remove unused functions.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L436

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.

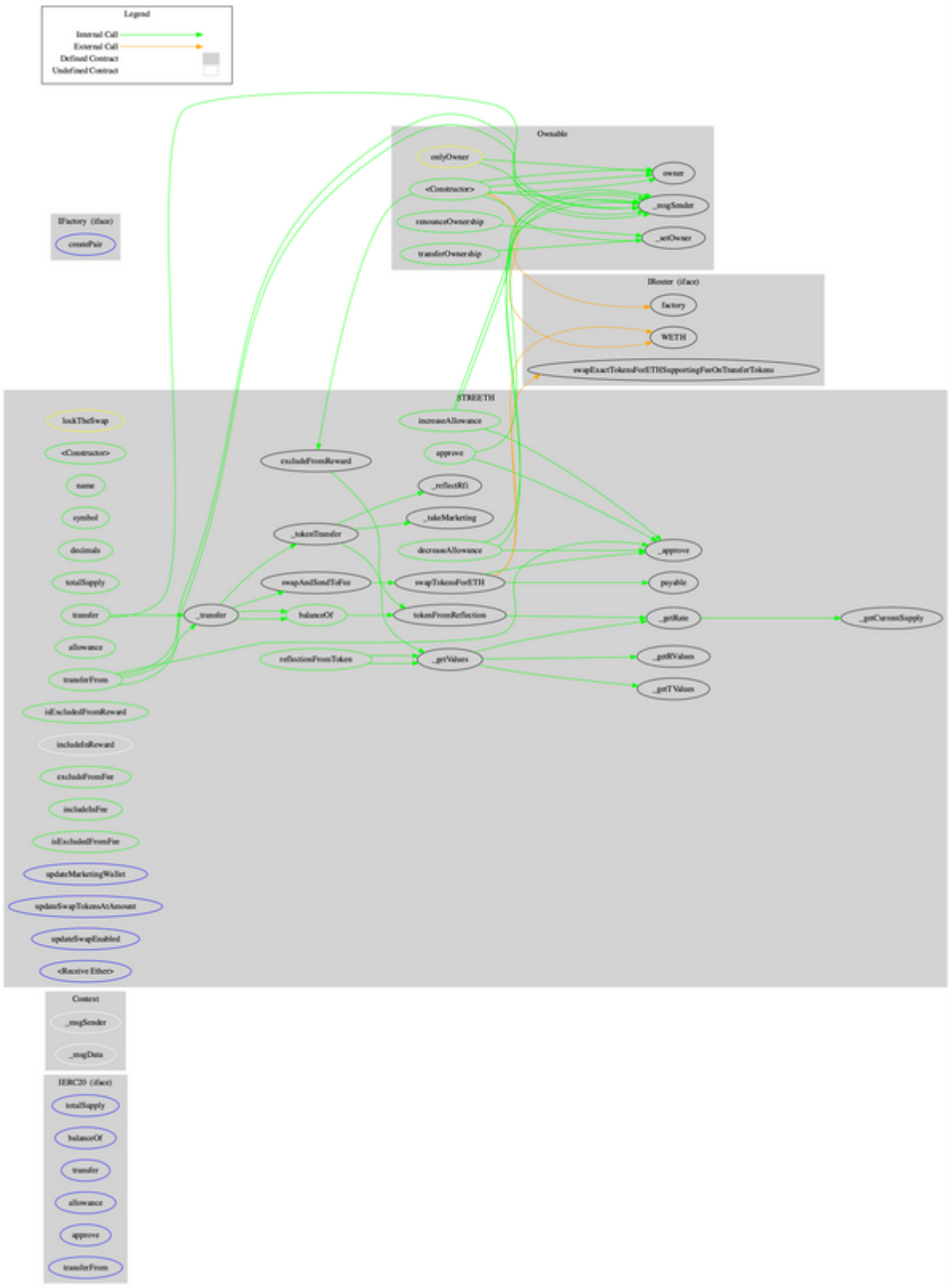
Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
IFactory	Interface			
	createPair	External	✓	-
IRouter	Interface			
	factory	External		-
	WETH	External		-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-

STREETH	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		-
	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	-

Contract Flow



Domain Info

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

The domain has been created 10 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

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