Audit Report
Equity

January 2022

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Contract Review

Contract Name	Equity
Compiler Version	v0.8.10+commit.fc410830
Optimization	500 runs
Licence	None
Explorer	https://bscscan.com/token/0x94Ac9A26813f4328157a9dA664a946a19E765529
Symbol	Equity_RTT_V2
Decimals	18
Total Supply	1,020,000
Source	/projects/equity/contracts/Equity.sol, /projects/equity/contracts/token/ReflectiveToken.sol, /projects/equity/contracts/interfaces/IReflectionTracker.sol, /projects/equity/contracts/access/SharedOwnable.sol, @uniswap/v2-periphery/contracts/interfaces/IUniswapV2Router02.sol, @uniswap/v2-periphery/contracts/interfaces/IUniswapV2Router01.sol, @uniswap/v2-core/contracts/interfaces/IUniswapV2Factory.sol, @openzeppelin/contracts/utils/Context.sol, @openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol, @openzeppelin/contracts/token/ERC20/IERC20.sol, @openzeppelin/contracts/token/ERC20/ERC20.sol, @openzeppelin/contracts/access/Ownable.sol
Domain	equitycoin.finance

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

Contract Diagnostics

● Critical   ● Medium   ● Minor   ● Pass

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	@openzeppelin/contracts/access/Ownable.sol#L197,L178,L150 and 6 more

Description

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

```
decreaseAllowance
increaseAllowance
transferFrom
...
```

Recommendation

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

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	@uniswap/v2-periphery/contracts/interfaces/IUniswapV2Router01.sol#L28,L20,L19 and 2 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.

```
_excludedReflectionStateOfBNB
magnitude
deadAddress
...
```

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	@openzeppelin/contracts/utils/Context.sol#L16,L221,L21

Description

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

```
get
_transfer
_msgData
```

Recommendation

Remove unused functions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
ERC20	Implementation	Context, IERC20, IERC20Metadata		
	<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	✓	
	_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		
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	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	✓	-
SharedOwnable	Implementation	Ownable		
	<Constructor>	Public	✓	Ownable
	getCreator	External		-
	isSharedOwner	External		-
	setSharedOwner	Internal	✓	onlySharedOwners
	_setSharedOwner	Private	✓	

Equity_RTT	Implementation	ReflectionTrackerToken		
	<Constructor>	Public	✓	ReflectionTrackerToken
IReflectionTracker	Interface			
	isBoundTo	External		-
	bindTo	External	✓	-
	getBalanceOf	External		-
	setBalanceOf	External	✓	-
	refreshBalanceOf	External	✓	-
	refreshBalance	External	✓	-
	getUniswapV2Router02Address	External		-
	setUniswapV2Router02Address	External	✓	-
	getDefaultReflectionTokenAddress	External		-
	setDefaultReflectionTokenAddress	External	✓	-
	getClaimCooldown	External		-
	setClaimCooldown	External	✓	-
	getMinimumTokenBalanceForReflections	External		-
	setMinimumTokenBalanceForReflections	External	✓	-
	getExcludedReflectionStateOfBNB	External		-
	setExcludedReflectionStateOfBNB	External	✓	-
	getExcludedReflectionTokenStateOf	External		-
	setExcludedReflectionTokenStateOf	External	✓	-
	getExcludedFromReflectionsOf	External		-
	setExcludedFromReflectionsOf	External	✓	-
	getProcessingGas	External		-
	setProcessingGas	External	✓	-
	getReflectionInBNB	External		-
	setReflectionInBNB	External	✓	-
	getReflectionTokenAddress	External		-
	setReflectionTokenAddress	External	✓	-
	getNumberOfHolders	External		-

	getLastProcessedIndex	External		-
	getTotalReflectionsTransferred	External		-
	getWithdrawnReflectionsOf	External		-
	getWithdrawableReflectionsOf	External		-
	getAccountInfoOf	External		-
	getAccountInfoAtIndex	External		-
	transferReflections	External	Payable	-
	transferReflections	External	✓	-
	process	External	✓	-
	processAll	External	✓	-
	processAll	External	✓	-
IterableMapping	Library			
	size	Internal		
	get	Internal		
	getKeyAtIndex	Internal		
	getIndexOfKey	Internal		
	set	Internal	✓	
	remove	Internal	✓	
SafeMathInt	Library			
	toUint256Safe	Internal		
SafeMathUint	Library			
	toInt256Safe	Internal		
ReflectionTrackerToken	Implementation	ERC20, IReflectionTracker, SharedOwnable		
	\<Constructor\>	Public	✓	ERC20
	\<Receive Ether\>	External	Payable	-
	isBoundTo	External		-
	bindTo	External	✓	onlySharedOwners

	getBalanceOf	External		-
	setBalanceOf	External	✓	onlyReflectiveToken
	refreshBalanceOf	External	✓	-
	refreshBalancesOf	External	✓	onlySharedOwners
	refreshBalance	External	✓	-
	getUniswapV2Router02Address	External		-
	setUniswapV2Router02Address	External	✓	onlySharedOwners
	getDefaultReflectionTokenAddress	External		-
	setDefaultReflectionTokenAddress	External	✓	onlySharedOwners
	getClaimCooldown	External		-
	setClaimCooldown	External	✓	onlySharedOwners
	getMinimumTokenBalanceForReflections	External		-
	setMinimumTokenBalanceForReflections	External	✓	onlySharedOwners
	getExcludedReflectionStateOfBNB	External		-
	setExcludedReflectionStateOfBNB	External	✓	onlySharedOwners
	getExcludedReflectionTokenStateOf	External		-
	setExcludedReflectionTokenStateOf	External	✓	onlySharedOwners
	getExcludedFromReflectionsOf	External		-
	setExcludedFromReflectionsOf	External	✓	onlySharedOwners
	getProcessingGas	External		-
	setProcessingGas	External	✓	onlySharedOwners
	getReflectionInBNB	External		-
	setReflectionInBNB	External	✓	-
	setReflectionInBNBs	External	✓	onlySharedOwners
	getReflectionTokenAddress	External		-
	setReflectionTokenAddress	External	✓	-
	setReflectionTokenAddresses	External	✓	onlySharedOwners

	getNumberOfHolders	External		-
	getLastProcessedIndex	External		-
	getTotalReflectionsTransferred	External		-
	getWithdrawnReflectionsOf	External		-
	getWithdrawableReflectionsOf	External		-
	getAccountInfoOf	External		-
	getAccountInfoAtIndex	External		-
	_getAccountInfo	Private		
	transferReflections	External	Payable	onlyReflectiveToken
	transferReflections	External	✓	onlyReflectiveToken
	process	External	✓	-
	processAll	External	✓	onlySharedOwners
	processAll	External	✓	onlySharedOwners
	_transfer	Internal		
	_mint	Internal	✓	
	_burn	Internal	✓	
	_getTokenPair	Private		
	_getBalanceOf	Private		
	_setBalanceOf	Private	✓	
	_updateBalanceOf	Private	✓	
	_setExcludedFromReflectionsOf	Private	✓	
	_getWithdrawableReflectionsOf	Private		
	_accumulativeReflectionOf	Private		
	_transferReflections	Private	✓	
	_canAutoClaim	Private		
	_process	Private	✓	
	_processAll	Private	✓	
	_withdrawReflectionOf	Private	✓	

Contract Flow

Domain Info

Domain Name	equitycoin.finance
Registry Domain ID	44fb488ca1de4eb79eaf7b9a92c09072-DONUTS
Creation Date	2021-12-02T02:30:46Z
Updated Date	2021-12-15T01:59:06Z
Registry Expiry Date	2022-12-02T02:30:46Z
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 has been created about 1 month before the creation of the audit. It will expire in 11 months.

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

Summary

Equity is aiming to provide crypto users an option that works like a traditional savings account at a bank. The project has a friendly and growing community. The smart contract analysis reported no compiler errors or critical issues. There are some functions that can be called by the owner but there are limitations to what he can change. There is no malicious function that can interrupt the users' transactions.

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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