



Cyberscope

Audit Report

# Blockbusters Liquidity Service

August 2022

SHA256    ae669bd095262f08a04990bf860eaf95a06ce4ca5df8583ede4041ea46d277a1

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## Contract Review

<b>Contract Name</b>	BlockbustersLiquidityService
<b>Compiler Version</b>	v0.8.15+commit.e14f2714
<b>Testing Deploy</b>	<a href="https://testnet.bscscan.com/token/0x12A97Cb066B8F00fA8284f1F693Fba61dff827b3">https://testnet.bscscan.com/token/0x12A97Cb066B8F00fA8284f1F693Fba61dff827b3</a>
<b>Domain</b>	<a href="https://bbtftoken.com">https://bbtftoken.com</a>

## Source Files

Filename	SHA256
<b>contract.sol</b>	ae669bd095262f08a04990bf860eaf95a06ce4ca5df8583e de4041ea46d277a1

## Audit Updates

<b>Initial Audit</b>	23rd August 2022
<b>Corrected</b>	

# Introduction

The Blockbusters Liquidity Service handles the functionality that is related to the liquidity pool. Additionally, it provides assisting methods between the token and the decentralized exchanges.

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	ST	Stops Transactions	Unresolved
●	STC	Succeeded Transfer Check	Unresolved
●	CO	Code Optimization	Unresolved
●	MC	Missing Check	Unresolved
●	L01	Public Function could be Declared External	Unresolved
●	L02	State Variables could be Declared Constant	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L05	Unused State Variable	Unresolved
●	L09	Dead Code Elimination	Unresolved
●	L12	Using Variables before Declaration	Unresolved
●	L13	Divide before Multiply Operation	Unresolved
●	L14	Uninitialized Variables in Local Scope	Unresolved
●	L15	Local Scope Variable Shadowing	Unresolved

## ST - Stops Transactions

<b>Criticality</b>	medium
<b>Location</b>	contract.sol#L938
<b>Status</b>	Unresolved

### Description

The contract is going to revert and stop the `_process` transaction on every `_calculateFee`, if the amount is lower than the fixed fee.

```
function _process(address from_, address to_, uint256 amount_) internal virtual returns (uint256){  
    return _isServiceExempt(from_, to_) ? 0 : _calculateFee(from_, to_, amount_);  
}
```

### Recommendation

A suggested implementation could apply the fees on each amount that is processed.

## STC - Succeeded Transfer Check

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L1881
<b>Status</b>	Unresolved

### Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
function withdrawTokens(uint amount_, address to_) external requires(msg.sender,
_ADMIN_FLAG(), 0) {
    _token.transfer(to_, amount_);
}
```

### Recommendation

The contract should check if the result of the transfer methods is successful.



## CO - Code Optimization

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L926,1866
<b>Status</b>	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.

Since the `_withdraw` may transfer all the balance, the loop is redundant. It should break if the contract balance is zero.

```
function _withdraw(address to_) internal virtual override {
    for (uint i = 0; i < _getServicesStorage().length(); i++) {
        IService(_getServicesStorage().getAsAddress(i)).withdraw(to_);
    }
    super._withdraw(to_);
}
```

The variable fee is not used in the function implementation. As a result its is redundant.

```
function _process(address from_, address to_, uint256 amount_) internal override returns
(uint256) {
    uint totalFee = super._process(from_, to_, amount_);
    uint fee = totalFee * amount_ / _PRECISION();
}
```

### Recommendation

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

## MC - Missing Check

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L2049
<b>Status</b>	Unresolved

### Description

The contract is processing variables that have not properly sanitized and checked that they form the proper shape. These variables may produce vulnerability issues.

The method `_withdraw` should check if there is sufficient balance before every deposit.

```
function _withdraw(address to_) internal override {  
    _deposit(to_, address(this).balance);  
}  
  
function _deposit(address account_, uint value_) internal virtual {  
    (bool success,) = payable(account_).call{value: value_}("");  
    if (!success) {  
        revert ServiceSendFailed();  
    }  
}
```

### Recommendation

The contract should properly check the variables according to the required specifications.

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L589,567,596,528,560,579,396,584,402,564,210,101
<b>Status</b>	Unresolved

### Description

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

```
name
totalSupply
approve
transfer
allowance
symbol
nonces
decimals
domainSeparators
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L1145
<b>Status</b>	Unresolved

### Description

Constant state variables should be declared constant to save gas.

```
_maxPrivateSalePercentage
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L148,1220,6,731,1200,136,164,1188,1208,1115,1138,128,1145,1111,172,1184,1196,140,1204,156,1058,1192,1216,1767,848,152,1760,1180,2030,132,1845,168,1088,1144,738,218,144,1137,1212,1041,176,160
<b>Status</b>	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.

```
_SERVICE_EXEMPT_FLAG
_REWARD_SWAP_DISABLED_FLAG
bits
_flags
_BLOCK_FROM_FLAG
_PROVIDER_FLAG
_ROUTER_FLAG
_REWARD_EXEMPT_FLAG
_PER_TX_SELL_LIMIT_DISABLED_FLAG
...
```

### 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 / informative
<b>Location</b>	contract.sol#L1845,1145
<b>Status</b>	Unresolved

### Description

There are segments that contain unused state variables.

```
__gap  
_maxPrivateSalePercentage
```

### Recommendation

Remove unused state variables.

## L09 - Dead Code Elimination

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L1401,1248,2040,1236,787,1240,457,1216,1196,407,799,184,1244,1372,642,719,1559,653,1382,71,1714,1347,926,1707,55,693,1075,1043,1192,176,1729,1434,1204,1678,1117,1671,773,2019,981,389,1200,2015,715,438,621,760,603,839,168,1550,468,803,172,1208,769,1188,12,1103,1220,17,795,1688,1444,51,180,875,1232,2032,1224,709,1212,1415
<b>Status</b>	Unresolved

### Description

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

```
functionCallWithValue
_checkFlags
_getTokensStorage
_isRewardExempt
next
_isTransferLimitExempt
_domainSeparator
_REWARD_DISTRIBUTION_DISABLED_FLAG
_ACCOUNT_FLAG
...
```

### Recommendation

Remove unused functions.

## L12 - Using Variables before Declaration

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L1647
<b>Status</b>	Unresolved

### Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

slot

### Recommendation

The variables should be declared before any usage of them.



## L13 - Divide before Multiply Operation

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L1008
<b>Status</b>	Unresolved

### Description

Performing divisions before multiplications may cause lose of prediction.

```
value = _getFeesStorage()[service] * 10 ** 18 / totalFee * value_ / 10 ** 18
```

### Recommendation

The multiplications should be prior to the divisions.

## L14 - Uninitialized Variables in Local Scope

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L1647
<b>Status</b>	Unresolved

### Description

There are variables that are defined in the local scope and are not initialized.

```
slot
```

### Recommendation

All the local scoped variables should be initialized.

## L15 - Local Scope Variable Shadowing

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L997,930,1866,929
<b>Status</b>	Unresolved

### Description

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

```
fee
providerFee
provider
```

### Recommendation

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

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>bits</b>	Library			
	only	Internal		
	all	Internal		
	any	Internal		
	check	Internal		
	all	Internal		
	set	Internal		
	toggle	Internal		
	isClear	Internal		
	clear	Internal		
	reset	Internal		
<b>UsingFlags</b>	Implementation			
	getFlags	Public		-
	_getFlags	Internal		
	_setFlags	Internal	✓	
	_getFlagStorage	Internal		
<b>UsingDefaultFlags</b>	Implementation	UsingFlags		
	_INITIALIZED_FLAG	Internal		
	_TRANSFER_DISABLED_FLAG	Internal		
	_PROVIDER_FLAG	Internal		
	_SERVICE_FLAG	Internal		
	_NETWORK_FLAG	Internal		
	_SERVICE_EXEMPT_FLAG	Internal		
	_PROCESSING_FLAG	Internal		
	_ADMIN_FLAG	Internal		
	_BLOCKED_FLAG	Internal		

	_ROUTER_FLAG	Internal		
	_SERVICE_FEE_EXEMPT_FLAG	Internal		
	_SERVICES_DISABLED_FLAG	Internal		
	_FEE_EXEMPT_FLAG	Internal		
	_isFeeExempt	Internal		
	_isServiceFeeExempt	Internal		
	_isServiceExempt	Internal		
<b>UsingInitializer</b>	Implementation	UsingFlags, UsingDefaultFlags		
	initialized	Public		-
<b>IUniswapV2Router01</b>	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		-

<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IService</b>	Interface			
	process	External	✓	-
	withdraw	External	✓	-
	fee	External		-
	provider	External		-
	providerFee	External		-
<b>IServiceProvider</b>	Interface	IService		
	removeServices	External	✓	-
	addServices	External	✓	-
	services	External		-
<b>ISwap</b>	Interface	IServiceProvider		
	quote	External		-
	swapNativeForTokens	External	Payable	-
	swapTokensForNative	External	✓	-
	swapTokensForNativeWithPermit	External	✓	-
<b>UsingPermit</b>	Implementation			
	_initializePermits	Internal	✓	
	nonces	Public		-
	domainSeparators	Public		-
	_permit	Internal	✓	

	_updateDomainSeparator	Internal	✓	
	_domainSeparator	Private	✓	
	_recover	Internal		
	_getNameStorage	Internal		
	_getNoncesStorage	Internal		
	_getDomainSeparatorsStorage	Internal		
<b>UsingERC20</b>	Implementation	UsingPermit , UsingFlags, UsingDefaultFlags		
	transfer	Public	✓	requires
	transferFrom	External	✓	requires
	allowance	Public		-
	permit	Public	✓	-
	totalSupply	Public		-
	balanceOf	External		-
	symbol	Public		-
	decimals	Public		-
	name	Public		-
	approve	Public	✓	-
	_initializeERC20	Internal	✓	
	_allowanceFor	Internal		
	_approve	Internal	✓	
	_balanceOf	Internal		
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_getAllowanceStorage	Internal		
	_getBalancesStorage	Internal		
	_getTotalSupplyStorage	Internal		
	_setTotalSupplyStorage	Internal	✓	
	_getSymbolStorage	Internal		
	_getDecimalStorage	Internal		

<b>Sets</b>	Library			
	add	Internal	✓	
	remove	Internal	✓	
	get	Internal		
	pop	Internal	✓	
	contains	Internal		
	length	Internal		
<b>UsingFlagsWithStorage</b>	Implementation	UsingFlags		
	_getFlagStorage	Internal		
<b>collections</b>	Library			
	add	Internal	✓	
	add	Internal	✓	
	replace	Internal	✓	
	replace	Internal	✓	
	pop	Internal	✓	
	get	Internal		
	getAsAddress	Internal		
	next	Internal	✓	
	current	Internal		
	currentAsAddress	Internal		
	nextAsAddress	Internal	✓	
	length	Internal		
	remove	Internal	✓	
	remove	Internal	✓	
	itemsAsAddresses	Internal		
	indexOf	Internal		
<b>UsingPrecision</b>	Implementation			
	_PRECISION	Internal		



<b>UsingAdmin</b>	Implementation	UsingFlags, UsingDefaultFlags		
	_initializeAdmin	Internal	✓	
	setFlags	External	✓	requires
<b>UsingFees</b>	Implementation	UsingDefaultFlags, UsingPrecision		
	_setFee	Internal	✓	
	_getFee	Internal		
	_applyFee	Internal		
	_getFeesStorage	Internal		
<b>UsingService</b>	Implementation	IService, UsingAdmin, UsingFees		
	<Receive Ether>	External	Payable	-
	process	External	✓	requires
	withdraw	External	✓	requires
	provider	External		-
	providerFee	External		-
	fee	External		-
	_calculateFee	Internal		
	_deposit	Internal	✓	
	_withdraw	Internal	✓	
	_process	Internal	✓	
	_receive	Internal	✓	
	_getFeeStorage	Internal		
	_setFeeStorage	Internal	✓	
	_getProviderStorage	Internal		
	_getProviderFeeStorage	Internal		
<b>UsingServiceProvider</b>	Implementation	IServiceProvider, UsingService		

	services	External		-
	addServices	External	✓	requires
	removeServices	External	✓	requires
	setServiceFee	External	✓	requires
	_removeServices	Internal	✓	
	_addServices	Internal	✓	
	_withdraw	Internal	✓	
	_processService	Internal	✓	
	_processServices	Internal	✓	
	_depositServiceFees	Internal	✓	
	_addService	Internal	✓	
	_removeService	Internal	✓	
	_getServicesStorage	Internal		
<b>UsingFeesWithStorage</b>	Implementation	UsingFees		
	_initializeFeesWithStorage	Internal	✓	
	_getFeesStorage	Internal		
<b>UsingServiceWithStorage</b>	Implementation	UsingService, UsingFeesWithStorage		
	_initializeServiceWithStorage	Internal	✓	
	_getProviderStorage	Internal		
	_getFeeStorage	Internal		
	_setFeeStorage	Internal	✓	
	_getProviderFeeStorage	Internal		
<b>UsingServiceProviderWithStorage</b>	Implementation	UsingServiceProvider, UsingServiceWithStorage		
	_initializeServiceProviderWithStorage	Internal	✓	
	_getServicesStorage	Internal		
	_withdraw	Internal	✓	

<b>UsingPermitWithStorage</b>	Implementation	UsingPermit		
	_initializePermitWithStorage	Internal	✓	
	_getNoncesStorage	Internal		
	_getDomainSeparatorsStorage	Internal		
<b>UsingSwapWithStorage</b>	Implementation	UsingServiceProviderWithStorage		
	_initializeSwapWithStorage	Internal	✓	
	_addRouter	Internal	✓	
	_process	Internal	✓	
<b>BlockbustersFlags</b>	Implementation	UsingFlags, UsingDefaultFlags, UsingAdmin		
	_TRANSFER_LIMIT_DISABLED_FLAG	Internal		
	_LP_PAIR_FLAG	Internal		
	_REWARD_EXEMPT_FLAG	Internal		
	_TRANSFER_LIMIT_EXEMPT_FLAG	Internal		
	_ACCOUNT_FLAG	Internal		
	_BLOCK_FROM_FLAG	Internal		
	_BLOCK_TO_FLAG	Internal		
	_PER_TX_SELL_LIMIT_DISABLED_FLAG	Internal		
	_24HR_SELL_LIMIT_DISABLED_FLAG	Internal		
	_REWARD_DISTRIBUTION_DISABLED_FLAG	Internal		
	_REWARD_SWAP_DISABLED_FLAG	Internal		
	_isLPPair	Internal		
	_isLPPair	Internal		
	_isTransferLimitEnabled	Internal		
	_isRewardExempt	Internal		
	_isTransferLimitExempt	Internal		
	_isRouter	Internal		

	_checkFlags	Internal		
<b>BlockbustersFlagsWithStorage</b>	Implementation	UsingFlags WithStorage , BlockbustersFlags		
<b>IERC1822ProxiableUpgradable</b>	Interface			
	proxiableUUID	External		-
<b>IBeaconUpgradable</b>	Interface			
	implementation	External		-
<b>AddressUpgradable</b>	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	verifyCallResult	Internal		
<b>StorageSlotUpgradable</b>	Library			
	getAddressSlot	Internal		
	getBooleanSlot	Internal		
	getBytes32Slot	Internal		
	getUint256Slot	Internal		
<b>UsingERC1967UpgradeUpgradable</b>	Implementation			

	_getImplementation	Internal		
	_setImplementation	Private	✓	
	_upgradeTo	Internal	✓	
	_upgradeToAndCall	Internal	✓	
	_upgradeToAndCallUUPS	Internal	✓	
	_getAdmin	Internal		
	_setAdmin	Private	✓	
	_changeAdmin	Internal	✓	
	_getBeacon	Internal		
	_setBeacon	Private	✓	
	_upgradeBeaconToAndCall	Internal	✓	
	_functionDelegateCall	Private	✓	
<b>UsingUUPS</b>	Implementation	IERC1822ProxiableUpgradeable, UsingERC1967UpgradeUpgradeable		
	proxiableUUID	External		notDelegated
	upgradeTo	External	✓	onlyProxy
	upgradeToAndCall	External	Payable	onlyProxy
	_authorizeUpgrade	Internal	✓	
<b>BlockbustersSwap</b>	Implementation	UsingSwapWithStorage, BlockbustersFlagsWithStorage, UsingInitializer, UsingUUPS		
	initialize	External	✓	initializer
	setup	External	✓	requires
	_process	Internal	✓	
	withdrawTokens	External	✓	requires
	_withdraw	Internal	✓	
	_authorizeUpgrade	Internal	✓	requires

<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>BlockbustersService</b>	Implementation	UsingServiceWithStorage, UsingInitializer, BlockbustersFlagsWithStorage, UsingUUPS		
	_initializeBlockbustersService	Internal	✓	
	initialize	External	✓	initializer
	_authorizeUpgrade	Internal	✓	requires
<b>UsingMultiToken</b>	Implementation			
	_addToken	Internal	✓	
	_removeToken	Internal	✓	
	_getTokensStorage	Internal		
<b>UsingMultiTokenWithStorage</b>	Implementation	UsingMultiToken		
	_initializeMultiTokenWithStorage	Internal	✓	
	_getTokensStorage	Internal		

<b>BlockbustersLiquidityService</b>	Implementation	BlockbustersService		
	_withdraw	Internal	✓	
	_process	Internal	✓	

# Contract Flow





## Domain Info

<b>Domain Name</b>	bbtftoken.com
<b>Registry Domain ID</b>	2685924176_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-03-31T18:04:42Z
<b>Updated Date</b>	2022-03-31T18:04:43Z
<b>Registry Expiry Date</b>	2023-03-31T18:04:42Z
<b>Registrar WHOIS Server</b>	whois.godaddy.com
<b>Registrar URL</b>	<a href="https://www.godaddy.com">https://www.godaddy.com</a>
<b>Registrar</b>	GoDaddy.com, LLC
<b>Registrar IANA ID</b>	146

The domain was created 5 months before the creation of the audit. It will expire in 7 months.

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

## Summary

This audit focuses on the business logic issues, the security concerns and the potential improvements. The owner has the authority to upgrade the contract via proxy.

# 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 has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

## About Cyberscope

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>