

# **Audit Report**

# **Blockbusters Staking Service**

August 2022

SHA256

d9632d47b3d8708266f5d4a469a2310561ae661d0307cc670002af76ba473f4b

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# **Contract Review**

| Contract Name    | BlockbustersStakingService   |
|------------------|--|
| Compiler Version | v0.8.15+commit.e14f2714  |
| Testing Deploy   | https://testnet.bscscan.com/token/0x4601187513D6257<br>CBB60aeC13654793Fe21B2312 |
| Domain           | https://bbtftoken.com  |

# Source Files

| Filename     | SHA256   |
|--------------|--|
| contract.sol | d9632d47b3d8708266f5d4a469a2310561ae661d0307cc<br>670002af76ba473f4b |

# **Audit Updates**

| Initial Audit | 23rd August 2022 |
|---------------|------------------|
| Corrected     |                  |



# Introduction

The Blockbusters Staking Service contract for processing the fees of a transaction. It is intended to be used by a token as an external service in order to manipulate the fees of the trade. The contract's name is misleading.



# **Contract Diagnostics**

CriticalMediumMinor / Informative

| Severity | Code | Description                                | Status     |
|----------|------|--|------------|
| •        | STC  | Succeeded Transfer Check                   | Unresolved |
| •        | BLC  | Business Logic Concern                     | 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 |



## BLC - Business Logic Concern

| Criticality | minor / informative |
|-------------|---------------------|
| Location    | contract.sol#L251   |
| Status      | Unresolved          |

#### Description

The business logic seems peculiar. The implementation may not follow the expected behavior.

The calculation is not taking in account the transferred amount, it's always fixed. So trades with less than this amount will revert.

```
function _calculateFee(address from_, address to_, uint amount_) internal view override returns
(uint){
    if (_isLPPair(to_)) return _getFeeStorage();
    return 0;
}
```

#### Recommendation

The team is advised to carefully check if the implementation follows the expected business logic.



#### L01 - Public Function could be Declared External

| Criticality | minor / informative   |
|-------------|---|
| Location    | contract.sol#L589,567,596,528,560,579,396,584,402,564,210,101 |
| Status      | 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

| Criticality | minor / informative |
|-------------|---------------------|
| Location    | contract.sol#L1145  |
| Status      | 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

| Criticality | minor / informative   |
|-------------|---|
| Location    | contract.sol#L148,1220,6,731,1200,136,164,1188,1208,1115,1138,128,1145,111 1,172,1184,1196,140,1204,156,1058,1192,1216,1767,848,152,1760,1180,2030,1 32,1845,168,1088,1144,738,218,144,1137,1212,1041,176,160 |
| 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.

```
_SERVICE_EXEMPT_FLAG
_REWARD_SWAP_DISABLED_FLAG
bits
_flags
_BLOCK_FROM_FLAG
_PROVIDER_FLAG
_ROUTER_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

| Criticality | minor / informative     |
|-------------|-------------------------|
| Location    | contract.sol#L1845,1145 |
| Status      | Unresolved              |

#### Description

There are segments that contain unused state variables.

```
__gap
_maxPrivateSalePercentage
```

#### Recommendation

Remove unused state variables.

#### L09 - Dead Code Elimination

| Criticality | minor / informative  |
|-------------|--|
| Location    | contract.sol#L1401,1248,2040,1236,787,1240,457,1216,1196,407,799,184,1244, 1372,642,719,1559,653,1382,71,1714,1347,926,1707,55,693,1075,1043,1192,17 6,1729,1434,1204,1678,1117,1671,773,2019,981,389,1200,2015,715,915,438,62 1,760,603,839,168,1550,468,803,172,1208,769,1188,12,1103,1220,17,795,1688, 1444,51,180,875,1232,2032,1224,709,1212,1415 |
| Status      | 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

| Criticality | minor / informative |
|-------------|---------------------|
| Location    | contract.sol#L1647  |
| Status      | 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

| Criticality | minor / informative |
|-------------|---------------------|
| Location    | contract.sol#L1008  |
| Status      | 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

| Criticality | minor / informative |
|-------------|---------------------|
| Location    | contract.sol#L1647  |
| Status      | Unresolved          |

#### Description

The 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

| Criticality | minor / informative            |
|-------------|--------------------------------|
| Location    | contract.sol#L997,930,1866,929 |
| Status      | Unresolved                     |

#### Description

The 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              | Туре                    | Bases      |            |           |
|-----------------------|-------------------------|------------|------------|-----------|
|                       | Function Name           | Visibility | Mutability | Modifiers |
| bits                  | Library                 |            |            |           |
| DILS                  | Library                 | Internal   |            |           |
|                       | only                    | Internal   |            |           |
|                       |                         | Internal   |            |           |
|                       | any                     | Internal   |            |           |
|                       | all                     | Internal   |            |           |
|                       |                         | Internal   |            |           |
|                       | set                     |            |            |           |
|                       | toggle                  | Internal   |            |           |
|                       | isClear                 | Internal   |            |           |
|                       | clear                   | Internal   |            |           |
|                       | reset                   | Internal   |            |           |
|                       |                         |            |            |           |
| UsingFlags            | Implementation          |            |            |           |
|                       | getFlags                | Public     |            | -         |
|                       | _getFlags               | Internal   |            |           |
|                       | _setFlags               | Internal   | ✓          |           |
|                       | _getFlagStorage         | Internal   |            |           |
|                       |                         |            |            |           |
| UsingDefaultFl<br>ags | 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                             |         |   |
| UsingInitializer       | Implementation               | UsingFlags,<br>UsingDefaul<br>tFlags |         |   |
|                        | initialized                  | Public                               |         | - |
| IUniswapV2Ro<br>uter01 | Interface                    |                                      |         |   |
|                        | factory                      | External                             |         | - |
|                        | WETH                         | External                             |         | - |
|                        | addLiquidity                 | External                             | 1       | - |
|                        | addLiquidityETH              | External                             | Payable | - |
|                        | removeLiquidity              | External                             | 1       | - |
|                        | removeLiquidityETH           | External                             | ✓       | - |
|                        | removeLiquidityWithPermit    | External                             | ✓       | - |
|                        | removeLiquidityETHWithPermit | External                             | 1       | - |
|                        | swapExactTokensForTokens     | External                             | 1       | - |
|                        | swapTokensForExactTokens     | External                             | 1       | - |
|                        | swapExactETHForTokens        | External                             | Payable | - |
|                        | swapTokensForExactETH        | External                             | 1       | - |
|                        | swapExactTokensForETH        | External                             | 1       | - |
|                        | swapETHForExactTokens        | External                             | Payable | - |
|                        | quote                        | External                             |         | - |
|                        | getAmountOut                 | External                             |         | - |
|                        | getAmountIn                  | External                             |         | - |
|                        | getAmountsOut                | External                             |         | - |
|                        | getAmountsIn                 | External                             |         | - |



| IUniswapV2Ro<br>uter02 | Interface  | IUniswapV2<br>Router01 |          |   |
|------------------------|--|------------------------|----------|---|
|                        | removeLiquidityETHSupportingFeeOnTransferTokens            | External               | ✓        | - |
|                        | removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens | External               | 1        | - |
|                        | swapExactTokensForTokensSupporti<br>ngFeeOnTransferTokens  | External               | ✓        | - |
|                        | swapExactETHForTokensSupporting<br>FeeOnTransferTokens     | External               | Payable  | - |
|                        | swapExactTokensForETHSupporting<br>FeeOnTransferTokens     | External               | 1        | - |
| IService               | Interface  |                        |          |   |
| iservice               |  |                        |          |   |
|                        | process  | External               | <b>✓</b> | - |
|                        | withdraw   | External               | <b>✓</b> | - |
|                        | fee  | External               |          | - |
|                        | provider   | External               |          | - |
|                        | providerFee  | External               |          | - |
| IServiceProvid er      | Interface  | IService               |          |   |
|                        | removeServices   | External               | <b>✓</b> | - |
|                        | addServices  | External               | <b>✓</b> | - |
|                        | services   | External               |          | - |
|                        |  |                        |          |   |
| ISwap                  | Interface  | IServicePro<br>vider   |          |   |
|                        | quote  | External               |          | - |
|                        | swapNativeForTokens  | External               | Payable  | - |
|                        | swapTokensForNative  | External               | <b>✓</b> | - |
|                        | swapTokensForNativeWithPermit                              | External               | 1        | - |
|                        |  |                        |          |   |
| UsingPermit            | Implementation   |                        |          |   |
|                        | _initializePermits   | Internal               | ✓        |   |
|                        | nonces   | Public                 |          | - |
|                        | domainSeparators   | Public                 |          | - |
|                        | _permit  | Internal               | 1        |   |



|            | _updateDomainSeparator      | Internal   | 1 |          |
|------------|-----------------------------|--|---|----------|
|            | _domainSeparator            | Private  | 1 |          |
|            | _recover                    | Internal   |   |          |
|            | _getNameStorage             | Internal   |   |          |
|            | _getNoncesStorage           | Internal   |   |          |
|            | _getDomainSeparatorsStorage | Internal   |   |          |
|            |                             |  |   |          |
| UsingERC20 | Implementation              | UsingPermit<br>,<br>UsingFlags,<br>UsingDefaul<br>tFlags |   |          |
|            | transfer                    | Public   | ✓ | requires |
|            | transferFrom                | External   | 1 | requires |
|            | allowance                   | Public   |   | -        |
|            | permit                      | Public   | ✓ | -        |
|            | totalSupply                 | Public   |   | -        |
|            | balanceOf                   | External   |   | -        |
|            | symbol                      | Public   |   | -        |
|            | decimals                    | Public   |   | -        |
|            | name                        | Public   |   | -        |
|            | approve                     | Public   | ✓ | -        |
|            | _initializeERC20            | Internal   | 1 |          |
|            | _allowanceFor               | Internal   |   |          |
|            | _approve                    | Internal   | 1 |          |
|            | _balanceOf                  | Internal   |   |          |
|            | _transfer                   | Internal   | 1 |          |
|            | _mint                       | Internal   | 1 |          |
|            | _burn                       | Internal   | 1 |          |
|            | _getAllowanceStorage        | Internal   |   |          |
|            | _getBalancesStorage         | Internal   |   |          |
|            | _getTotalSupplyStorage      | Internal   |   |          |
|            | _setTotalSupplyStorage      | Internal   | 1 |          |
|            | _getSymbolStorage           | Internal   |   |          |
|            | _getDecimalStorage          | Internal   |   |          |
|            |                             |  |   |          |



| Sets                      | Library          |            |   |  |
|---------------------------|------------------|------------|---|--|
|                           | add              | Internal   | 1 |  |
|                           | remove           | Internal   | 1 |  |
|                           | get              | Internal   |   |  |
|                           | рор              | Internal   | 1 |  |
|                           | contains         | Internal   |   |  |
|                           | length           | Internal   |   |  |
|                           |                  |            |   |  |
| UsingFlagsWit<br>hStorage | Implementation   | UsingFlags |   |  |
|                           | _getFlagStorage  | Internal   |   |  |
|                           |                  |            |   |  |
| collections               | Library          |            |   |  |
|                           | add              | Internal   | ✓ |  |
|                           | add              | Internal   | ✓ |  |
|                           | replace          | Internal   | ✓ |  |
|                           | replace          | Internal   | ✓ |  |
|                           | рор              | Internal   | ✓ |  |
|                           | get              | Internal   |   |  |
|                           | getAsAddress     | Internal   |   |  |
|                           | next             | Internal   | ✓ |  |
|                           | current          | Internal   |   |  |
|                           | currentAsAddress | Internal   |   |  |
|                           | nextAsAddress    | Internal   | ✓ |  |
|                           | length           | Internal   |   |  |
|                           | remove           | Internal   | ✓ |  |
|                           | remove           | Internal   | ✓ |  |
|                           | itemsAsAddresses | Internal   |   |  |
|                           | indexOf          | Internal   |   |  |
|                           |                  |            |   |  |
| UsingPrecisio<br>n        | Implementation   |            |   |  |
|                           | _PRECISION       | Internal   |   |  |
|                           |                  |            |   |  |



| UsingAdmin               | Implementation               | UsingFlags,<br>UsingDefaul<br>tFlags         |          |          |
|--------------------------|------------------------------|--|----------|----------|
|                          | _initializeAdmin             | Internal                                     | ✓        |          |
|                          | setFlags                     | External                                     | ✓        | requires |
|                          |                              |  |          |          |
| UsingFees                | Implementation               | UsingDefaul<br>tFlags,<br>UsingPrecisi<br>on |          |          |
|                          | _setFee                      | Internal                                     | ✓        |          |
|                          | _getFee                      | Internal                                     |          |          |
|                          | _applyFee                    | Internal                                     |          |          |
|                          | _getFeesStorage              | Internal                                     |          |          |
|                          |                              |  |          |          |
| UsingService             | Implementation               | IService,<br>UsingAdmin<br>, UsingFees       |          |          |
|                          | <receive ether=""></receive> | External                                     | Payable  | -        |
|                          | process                      | External                                     | ✓        | requires |
|                          | withdraw                     | External                                     | 1        | requires |
|                          | provider                     | External                                     |          | -        |
|                          | providerFee                  | External                                     |          | -        |
|                          | fee                          | External                                     |          | -        |
|                          | _calculateFee                | Internal                                     |          |          |
|                          | _deposit                     | Internal                                     | ✓        |          |
|                          | _withdraw                    | Internal                                     | ✓        |          |
|                          | _process                     | Internal                                     | ✓        |          |
|                          | _receive                     | Internal                                     | 1        |          |
|                          | _getFeeStorage               | Internal                                     |          |          |
|                          | _setFeeStorage               | Internal                                     | <b>✓</b> |          |
|                          | _getProviderStorage          | Internal                                     |          |          |
|                          | _getProviderFeeStorage       | Internal                                     |          |          |
| UsingServiceP<br>rovider | Implementation               | IServicePro<br>vider,<br>UsingServic<br>e    |          |          |



|   | services                              | External   |          | -        |
|---|---------------------------------------|--|----------|----------|
|   | addServices                           | External   | 1        | requires |
|   | removeServices                        | External   | 1        | requires |
|   | setServiceFee                         | External   | ✓        | requires |
|   | _removeServices                       | Internal   | 1        |          |
|   | _addServices                          | Internal   | 1        |          |
|   | _withdraw                             | Internal   | 1        |          |
|   | _processService                       | Internal   | 1        |          |
|   | _processServices                      | Internal   | 1        |          |
|   | _depositServiceFees                   | Internal   | 1        |          |
|   | _addService                           | Internal   | <b>✓</b> |          |
|   | _removeService                        | Internal   | 1        |          |
|   | _getServicesStorage                   | Internal   |          |          |
|   |                                       |  |          |          |
| UsingFeesWit<br>hStorage                | Implementation                        | UsingFees  |          |          |
|   | _initializeFeesWithStorage            | Internal   | 1        |          |
|   | _getFeesStorage                       | Internal   |          |          |
|   |                                       |  |          |          |
| UsingService<br>WithStorage             | Implementation                        | UsingServic<br>e,<br>UsingFees<br>WithStorage                |          |          |
|   | _initializeServiceWithStorage         | Internal   | 1        |          |
|   | _getProviderStorage                   | Internal   |          |          |
|   | _getFeeStorage                        | Internal   |          |          |
|   | _setFeeStorage                        | Internal   | 1        |          |
|   | _getProviderFeeStorage                | Internal   |          |          |
|   |                                       |  |          |          |
| UsingServiceP<br>roviderWithSt<br>orage | Implementation                        | UsingServic<br>eProvider,<br>UsingServic<br>eWithStorag<br>e |          |          |
|   | _initializeServiceProviderWithStorage | Internal   | ✓        |          |
|   | _getServicesStorage                   | Internal   |          |          |
|   | _withdraw                             | Internal   | 1        |          |



| UsingPermitWi<br>thStorage | Implementation                       | UsingPermit   |   |  |
|----------------------------|--------------------------------------|---|---|--|
|                            | _initializePermitWithStorage         | Internal  | ✓ |  |
|                            | _getNoncesStorage                    | Internal  |   |  |
|                            | _getDomainSeparatorsStorage          | Internal  |   |  |
|                            |                                      |   |   |  |
| UsingSwapWit<br>hStorage   | Implementation                       | UsingServic<br>eProviderWi<br>thStorage             |   |  |
|                            | _initializeSwapWithStorage           | Internal  | ✓ |  |
|                            | _addRouter                           | Internal  | 1 |  |
|                            | _process                             | Internal  | ✓ |  |
|                            |                                      |   |   |  |
| BlockbustersF<br>lags      | Implementation                       | UsingFlags,<br>UsingDefaul<br>tFlags,<br>UsingAdmin |   |  |
|                            | _TRANSFER_LIMIT_DISABLED_FLA<br>G    | 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_F<br>LAG | Internal  |   |  |
|                            | _24HR_SELL_LIMIT_DISABLED_FLA<br>G   | Internal  |   |  |
|                            | _REWARD_DISTRIBUTION_DISABLE D_FLAG  | Internal  |   |  |
|                            | _REWARD_SWAP_DISABLED_FLAG           | Internal  |   |  |
|                            | _isLPPair                            | Internal  |   |  |
|                            | _isLPPair                            | Internal  |   |  |
|                            | _isTransferLimitEnabled              | Internal  |   |  |
|                            | _isRewardExempt                      | Internal  |   |  |
|                            | _isTransferLimitExempt               | Internal  |   |  |
|                            | _isRouter                            | Internal  |   |  |



|  | _checkFlags           | Internal  |   |   |
|--|-----------------------|---|---|---|
|  |                       |   |   |   |
| BlockbustersF<br>lagsWithStora<br>ge   | Implementation        | UsingFlags<br>WithStorage<br>,<br>Blockbuster<br>sFlags |   |   |
| IERC1822Proxi<br>ableUpgradea<br>ble   | Interface             |   |   |   |
|  | proxiableUUID         | External  |   | - |
| IBeaconUpgra deable                    | Interface             |   |   |   |
|  | implementation        | External  |   | - |
|  |                       |   |   |   |
| AddressUpgra deable                    | Library               |   |   |   |
|  | isContract            | Internal  |   |   |
|  | sendValue             | Internal  | ✓ |   |
|  | functionCall          | Internal  | ✓ |   |
|  | functionCall          | Internal  | ✓ |   |
|  | functionCallWithValue | Internal  | ✓ |   |
|  | functionCallWithValue | Internal  | ✓ |   |
|  | functionStaticCall    | Internal  |   |   |
|  | functionStaticCall    | Internal  |   |   |
|  | verifyCallResult      | Internal  |   |   |
| StorageSlotUp<br>gradeable             | Library               |   |   |   |
|  | getAddressSlot        | Internal  |   |   |
|  | getBooleanSlot        | Internal  |   |   |
|  | getBytes32Slot        | Internal  |   |   |
|  | getUint256Slot        | Internal  |   |   |
| UsingERC1967<br>UpgradeUpgra<br>deable | Implementation        |   |   |   |



|                      | _getImplementation      | Internal   |          |              |
|----------------------|-------------------------|--|----------|--------------|
|                      | _setImplementation      | Private  | ✓        |              |
|                      | _upgradeTo              | Internal   | ✓        |              |
|                      | _upgradeToAndCall       | Internal   | <b>√</b> |              |
|                      | _upgradeToAndCallUUPS   | Internal   | 1        |              |
|                      | _getAdmin               | Internal   |          |              |
|                      | _setAdmin               | Private  | ✓        |              |
|                      | _changeAdmin            | Internal   | 1        |              |
|                      | _getBeacon              | Internal   |          |              |
|                      | _setBeacon              | Private  | 1        |              |
|                      | _upgradeBeaconToAndCall | Internal   | 1        |              |
|                      | _functionDelegateCall   | Private  | 1        |              |
|                      |                         |  |          |              |
| UsingUUPS            | Implementation          | IERC1822Pr<br>oxiableUpgr<br>adeable,<br>UsingERC1<br>967Upgrade<br>Upgradeabl<br>e  |          |              |
|                      | proxiableUUID           | External   |          | notDelegated |
|                      | upgradeTo               | External   | 1        | onlyProxy    |
|                      | upgradeToAndCall        | External   | Payable  | onlyProxy    |
|                      | _authorizeUpgrade       | Internal   | <b>✓</b> |              |
|                      |                         |  |          |              |
| BlockbustersS<br>wap | Implementation          | UsingSwap WithStorage , Blockbuster sFlagsWithS torage, UsingInitiali zer, UsingUUPS |          |              |
|                      | initialize              | External   | ✓        | initializer  |
|                      | setup                   | External   | <b>✓</b> | requires     |
|                      | _process                | Internal   | <b>✓</b> |              |
|                      | withdrawTokens          | External   | 1        | requires     |
|                      | _withdraw               | Internal   | 1        |              |
|                      | _authorizeUpgrade       | Internal   | <b>✓</b> | requires     |
|                      |                         |  |          |              |



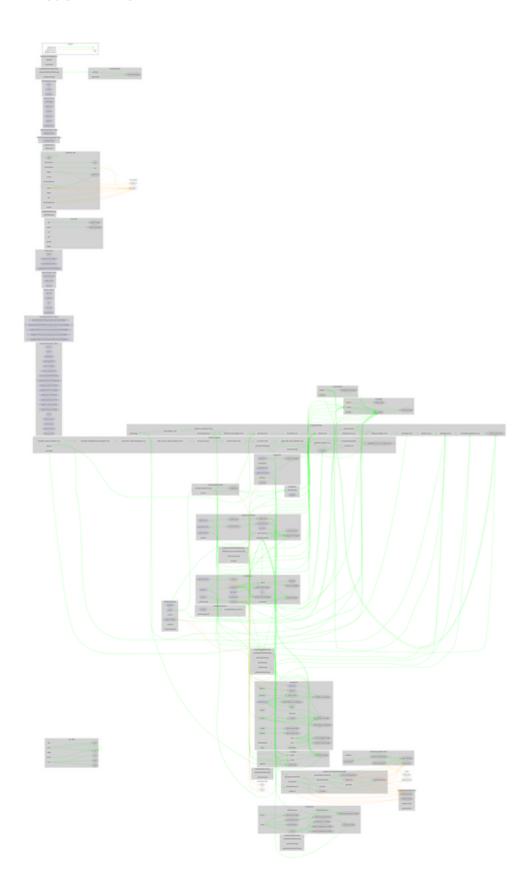
| IERC20                         | Interface                        |   |          |             |
|--------------------------------|----------------------------------|---|----------|-------------|
|                                | totalSupply                      | External  |          | -           |
|                                | balanceOf                        | External  |          | -           |
|                                | transfer                         | External  | ✓        | -           |
|                                | allowance                        | External  |          | -           |
|                                | approve                          | External  | ✓        | -           |
|                                | transferFrom                     | External  | ✓        | -           |
|                                |                                  |   |          |             |
| IERC20Metad<br>ata             | Interface                        | IERC20  |          |             |
|                                | name                             | External  |          | -           |
|                                | symbol                           | External  |          | -           |
|                                | decimals                         | External  |          | -           |
|                                |                                  |   |          |             |
| BlockbustersS<br>ervice        | Implementation                   | UsingServic eWithStorag e, UsingInitiali zer, Blockbuster sFlagsWithS torage, UsingUUPS |          |             |
|                                | _initializeBlockbustersService   | Internal  | 1        |             |
|                                | initialize                       | External  | ✓        | initializer |
|                                | _authorizeUpgrade                | Internal  | 1        | requires    |
| UsingMultiTok<br>en            | Implementation                   |   |          |             |
|                                | _addToken                        | Internal  | 1        |             |
|                                | _removeToken                     | Internal  | 1        |             |
|                                | _getTokensStorage                | Internal  |          |             |
| UsingMultiTok<br>enWithStorage | Implementation                   | UsingMultiT oken  |          |             |
|                                | _initializeMultiTokenWithStorage | Internal  | <b>✓</b> |             |
|                                |                                  |   |          |             |



| BlockbustersS takingService | Implementation | Blockbuster<br>sService |   |  |
|-----------------------------|----------------|-------------------------|---|--|
|                             | _withdraw      | Internal                | 1 |  |
|                             | _calculateFee  | Internal                |   |  |



# **Contract Flow**





# Domain Info

| Domain Name               | bbtftoken.com              |
|---------------------------|----------------------------|
| Registry Domain ID        | 2685924176_DOMAIN_COM-VRSN |
| Creation Date             | 2022-03-31T18:04:42Z       |
| Updated Date              | 2022-03-31T18:04:43Z       |
| Registry Expiry Date      | 2023-03-31T18:04:42Z       |
| Registrar WHOIS<br>Server | whois.godaddy.com          |
| Registrar URL             | https://www.godaddy.com    |
| Registrar                 | GoDaddy.com, LLC           |
| Registrar IANA ID         | 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. The staking name is misleading since this contract is not related to staking.



#### 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.

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# About Cyberscope

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

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.

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