



# Smart Contract Audit

FOR  
**ALT CRYPTO**

DATED : 24 August 23'



# AUDIT SUMMARY

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**Project name – ALT CRYPTO**

**Date:** 24 August 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status:** **Passed**

## Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	1
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

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# USED TOOLS

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## Tools:

### 1- Manual Review:

A line by line code review has been performed by audit ace team.

**2- BSC Test Network:** All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

### 3- Slither :

The code has undergone static analysis using Slither.

### Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

<https://testnet.bscscan.com/address/0x30cCd4CeD5bb60e6CA065D17e8A315EEa0e5E574>

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# Token Information

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**Token Address :**

0xb8927b3ee00e9aded1431feea6975795403873ef

**Name:** ALT CRYPTO

**Symbol:** ALTC

**Decimals:** 18

**Netowrk:** BSC

**Token Type:** BEP20

**Owner:** 0xB0F969d7B93Cc11B9a479F094C058889a3B8b94F  
(at time of writing the audit)

**Deployer:**

0xB0F969d7B93Cc11B9a479F094C058889a3B8b94F

**Token Supply:** 10,000,000,000

**Checksum:**

fa17c9f5736affaf74cb2b9343cf49e4888f335b

**Testnet version:**

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

<https://testnet.bscscan.com/address/0x30cCd4CeD5bb60e6CA065D17e8A315EEa0e5E574>

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# TOKEN OVERVIEW

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**buy fee: 0%**

**Sell fee: 2%**

**transfer fee: 0%**

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**Fee Privilege: Static fees**

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**Ownership: Owned**

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**Minting: None**

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**Max Tx: No**

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**Blacklist: No**

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**Other Privileges:**

- Initial distribution of the tokens

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# AUDIT METHODOLOGY

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The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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# VULNERABILITY CHECKLIST

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- |                                    |                               |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ Gasless Send                |
| ✓ Private modifier                 | ✓ Using block.timestamp       |
| ✓ Multiple Sends                   | ✓ Re-entrancy                 |
| ✓ Using Suicide                    | ✓ Tautology or contradiction  |
| ✓ Gas Limitand Loops               | ✓ Timestamp Dependence        |
| ✓ Address hardcoded                | ✓ Revert/require functions    |
| ✓ Exception Disorder               | ✓ Use of tx.origin            |
| ✓ Using inline assembly            | ✓ Integer overflow/underflow  |
| ✓ Divide before multiply           | ✓ Dangerous strict equalities |
| ✓ Missing Zero Address Validation  | ✓ Using SHA3                  |
| ✓ Compiler version not fixed       | ✓ Using throw                 |
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# CLASSIFICATION OF RISK

## Severity

## Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

## Findings

### Severity

### Found

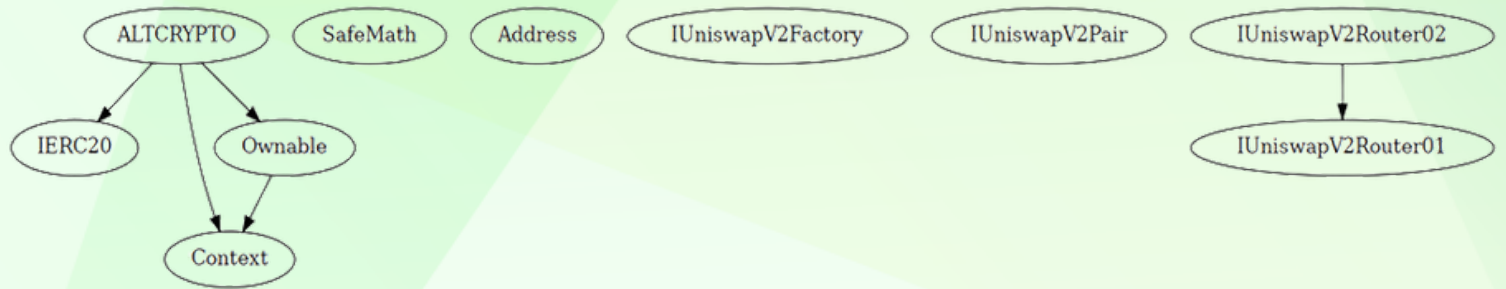
◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	1





# INHERITANCE TREE

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# POINTS TO NOTE

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- **Owner is not able to change currnt fees (0% buy/ 2% sell / 0% transfer)**
  - Owner is not able to blacklist an arbitrary address.
  - Owner is not able to disable trades
  - Owner is not able to limit buy/sell/transfer/wallet amounts
  - Owner is not able to mint new tokens
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# STATIC ANALYSIS

```
Parameter ALTCRYPTO.calculateRnDFee(uint256)._amount (contracts/Token.sol#1271) is not in mixedCase
Parameter ALTCRYPTO.calculateBurnFee(uint256)._amount (contracts/Token.sol#1275) is not in mixedCase
Parameter ALTCRYPTO.withdrawToken(address,uint256)._tokenContract (contracts/Token.sol#1511) is not in mixedCase
Parameter ALTCRYPTO.withdrawToken(address,uint256)._amount (contracts/Token.sol#1512) is not in mixedCase
Variable ALTCRYPTO._marketingTax (contracts/Token.sol#875-876) is not in mixedCase
Variable ALTCRYPTO._burnTax (contracts/Token.sol#877-878) is not in mixedCase
Variable ALTCRYPTO._RnDTax (contracts/Token.sol#879-880) is not in mixedCase
Variable ALTCRYPTO._RnDFee (contracts/Token.sol#906) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
INFO:Detectors:
Redundant expression "this (contracts/Token.sol#266)" inContext (contracts/Token.sol#260-269)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
INFO:Detectors:
Variable TuniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#667) is too similar to TuniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#668)
Variable ALTCRYPTO._getRValues(uint256,uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1200-1212) is too similar to ALTCRYPTO._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1447)
Variable ALTCRYPTO._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1394) is too similar to ALTCRYPTO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1417)
Variable ALTCRYPTO._getRValues(uint256,uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1200-1212) is too similar to ALTCRYPTO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1417)
Variable ALTCRYPTO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1423) is too similar to ALTCRYPTO._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1388)
Variable ALTCRYPTO._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1453) is too similar to ALTCRYPTO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1417)
Variable ALTCRYPTO._getRValues(uint256,uint256,uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#1200-1212) is too similar to ALTCRYPTO._transferStandard(address,address,uint256).tTransferAmount (contracts/Token.sol#1388)
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Variable ALTCRYPTO._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1483) is too similar to ALTCRYPTO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1417)
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Variable ALTCRYPTO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1423) is too similar to ALTCRYPTO._getRValues(uint256).tTransferAmount (contracts/Token.sol#1188)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar
INFO:Detectors:
Loop condition "i < _excluded.length" (contracts/Token.sol#1224) should use cached array length instead of referencing "length" member of the storage array.
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cache-array-length
INFO:Detectors:
ALTCRYPTO._decimals (contracts/Token.sol#884) should be constant
ALTCRYPTO._name (contracts/Token.sol#882) should be constant
ALTCRYPTO._symbol (contracts/Token.sol#883) should be constant
ALTCRYPTO._total (contracts/Token.sol#871) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Slither: /contracts/Token.sol analyzed (10 contracts with 88 detectors), 73 result(s) found
```

**Result => A static analysis of contract's source code has been performed using slither,**

**No major issues were found in the output**



# CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
<b>└</b>	<b>**Function Name**</b>	<b>**Visibility**</b>	<b>**Mutability**</b>	<b>**Modifiers**</b>	
<b>**IERC20**</b>	Interface				
<b>└</b>	<b>totalSupply</b>	External	!		NO !
<b>└</b>	<b>balanceOf</b>	External	!		NO !
<b>└</b>	<b>transfer</b>	External	!	●	NO !
<b>└</b>	<b>allowance</b>	External	!		NO !
<b>└</b>	<b>approve</b>	External	!	●	NO !
<b>└</b>	<b>transferFrom</b>	External	!	●	NO !
<b>**SafeMath**</b>	Library				
<b>└</b>	<b>add</b>	Internal	🔒		
<b>└</b>	<b>sub</b>	Internal	🔒		
<b>└</b>	<b>sub</b>	Internal	🔒		
<b>└</b>	<b>mul</b>	Internal	🔒		
<b>└</b>	<b>div</b>	Internal	🔒		
<b>└</b>	<b>div</b>	Internal	🔒		
<b>└</b>	<b>mod</b>	Internal	🔒		
<b>└</b>	<b>mod</b>	Internal	🔒		
<b>**Context**</b>	Implementation				
<b>└</b>	<b>_msgSender</b>	Internal	🔒		
<b>└</b>	<b>_msgData</b>	Internal	🔒		
<b>**Address**</b>	Library				
<b>└</b>	<b>isContract</b>	Internal	🔒		
<b>└</b>	<b>sendValue</b>	Internal	🔒	●	
<b>└</b>	<b>functionCall</b>	Internal	🔒	●	
<b>└</b>	<b>functionCall</b>	Internal	🔒	●	
<b>└</b>	<b>functionCallWithValue</b>	Internal	🔒	●	



# CONTRACT ASSESMENT

```
|  | functionCallWithValue | Internal | | | |
|  | _functionCallWithValue | Private | | | |
|||||
| **Ownable** | Implementation | Context | | |
|  | <Constructor> | Public | | | NO |
|  | owner | Public | | | NO |
|  | renounceOwnership | Public | | | onlyOwner |
|  | transferOwnership | Public | | | onlyOwner |
|||||
| **IUniswapV2Factory** | Interface | | | |
|  | feeTo | External | | | NO |
|  | feeToSetter | External | | | NO |
|  | getPair | External | | | NO |
|  | allPairs | External | | | NO |
|  | allPairsLength | External | | | NO |
|  | createPair | External | | | NO |
|  | setFeeTo | External | | | NO |
|  | setFeeToSetter | External | | | NO |
|||||
| **IUniswapV2Pair** | Interface | | | |
|  | name | External | | | NO |
|  | symbol | External | | | NO |
|  | decimals | External | | | NO |
|  | totalSupply | External | | | NO |
|  | balanceOf | External | | | NO |
|  | allowance | External | | | NO |
|  | approve | External | | | NO |
|  | transfer | External | | | NO |
|  | transferFrom | External | | | NO |
|  | DOMAIN_SEPARATOR | External | | | NO |
|  | PERMIT_TYPEHASH | External | | | NO |
|  | nonces | External | | | NO |
|  | permit | External | | | NO |
|  | MINIMUM_LIQUIDITY | External | | | NO |
```

# CONTRACT ASSESMENT

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```
|  |  | factory | External ! | |NO ! |
|  |  | token0 | External ! | |NO ! |
|  |  | token1 | External ! | |NO ! |
|  |  | getReserves | External ! | |NO ! |
|  |  | price0CumulativeLast | External ! | |NO ! |
|  |  | price1CumulativeLast | External ! | |NO ! |
|  |  | kLast | External ! | |NO ! |
|  |  | burn | External ! | ● |NO ! |
|  |  | swap | External ! | ● |NO ! |
|  |  | skim | External ! | ● |NO ! |
|  |  | sync | External ! | ● |NO ! |
|  |  | initialize | External ! | ● |NO ! |
|||||
| **IUniswapV2Router01** | Interface | |||
|  |  | factory | External ! | |NO ! |
|  |  | WETH | External ! | |NO ! |
|  |  | addLiquidity | External ! | ● |NO ! |
|  |  | addLiquidityETH | External ! | 🟢 |NO ! |
|  |  | removeLiquidity | External ! | ● |NO ! |
|  |  | removeLiquidityETH | External ! | ● |NO ! |
|  |  | removeLiquidityWithPermit | External ! | ● |NO ! |
|  |  | removeLiquidityETHWithPermit | External ! | ● |NO ! |
|  |  | swapExactTokensForTokens | External ! | ● |NO ! |
|  |  | swapTokensForExactTokens | External ! | ● |NO ! |
|  |  | swapExactETHForTokens | External ! | 🟢 |NO ! |
|  |  | swapTokensForExactETH | External ! | ● |NO ! |
|  |  | swapExactTokensForETH | External ! | ● |NO ! |
|  |  | swapETHForExactTokens | External ! | 🟢 |NO ! |
|  |  | quote | External ! | |NO ! |
|  |  | getAmountOut | External ! | |NO ! |
|  |  | getAmountIn | External ! | |NO ! |
|  |  | getAmountsOut | External ! | |NO ! |
|  |  | getAmountsIn | External ! | |NO ! |
```

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# CONTRACT ASSESMENT

|||||

**\*\*IUniswapV2Router02\*\***	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External !	●	NO !
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !	●	NO !
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !	●	NO !
	swapExactETHForTokensSupportingFeeOnTransferTokens	External !	🟢	NO !
	swapExactTokensForETHSupportingFeeOnTransferTokens	External !	●	NO !

|||||

**\*\*ALTCRYPTO\*\***	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public !	●	NO !
	name	Public !		NO !
	symbol	Public !		NO !
	decimals	Public !		NO !
	totalSupply	Public !		NO !
	balanceOf	Public !		NO !
	transfer	Public !	●	NO !
	allowance	Public !		NO !
	approve	Public !	●	NO !
	transferFrom	Public !	●	NO !
	increaseAllowance	Public !	●	NO !
	decreaseAllowance	Public !	●	NO !
	isExcludedFromReward	Public !		NO !
	totalFees	Public !		NO !
	tokenFromReflection	Public !		NO !
	updateMarketingWallet	External !	●	onlyOwner
	updateburnAddress	External !	●	onlyOwner
	updateRnDAddress	External !	●	onlyOwner
	excludeFromReward	Public !	●	onlyOwner
	includeInReward	External !	●	onlyOwner
	excludeFromFee	Public !	●	onlyOwner
	includeInFee	Public !	●	onlyOwner
	setSellFee	External !	●	onlyOwner
	setBuyFee	External !	●	onlyOwner
	<Receive Ether>	External !	🟢	NO !



# CONTRACT ASSESSMENT

		_reflectFee	Private				
		_getTVValues	Private				
		_getRValues	Private				
		_getRate	Private				
		_getCurrentSupply	Private				
		_takeMarketing	Private				
		_takeBurnFee	Private				
		_takeRnDFee	Private				
		calculatetaxReflectionFee	Private				
		calculateMarketingFee	Private				
		calculateRnDFee	Private				
		calculateBurnFee	Private				
		removeAllFee	Private				
		setBuy	Private				
		setSell	Private				
		isExcludedFromFee	Public	!	NO	!	
		_approve	Private				
		_transfer	Private				
		swapTokensForEth	Private				
		_tokenTransfer	Private				
		_transferStandard	Private				
		_transferToExcluded	Private				
		_transferFromExcluded	Private				
		_transferBothExcluded	Private				
		withdrawETH	Public	!			onlyOwner
		withdrawToken	Public	!			onlyOwner

### ### Legend

Symbol	Meaning
☀	Sun
☾	Moon
☁	Cloud
🌧	Rain
⚡	Thunder
🌨	Snow
🌪	Tornado
🌋	Volcano
🌊	Wave
🌬	Wind
🔥	Fire
💧	Water
🌱	Plant
🌳	Tree
🌿	Herb
🍀	Four-leaf clover
🍁	Fall leaf
🍂	Fall leaves
🍃	Spring breeze
🌸	Cherry blossom
🌺	Flower
🌻	Sunflower
🌼	Butterfly
🌾	Rice
🌽	Corn
🌿	Herb
🍀	Four-leaf clover
🍁	Fall leaf
🍂	Fall leaves
🍃	Spring breeze
🌸	Cherry blossom
🌺	Flower
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🍃	Spring breeze
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🌽	Corn

$$| \begin{array}{c} : \\ - \\ : \end{array} \text{---} \text{---} \text{---} \text{---} | \begin{array}{c} : \\ - \\ : \end{array} | \text{---} \text{---} \text{---} \text{---} |$$

|  | **Function can modify state** |

|  | **Function is payable** |





# FUNCTIONAL TESTING

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1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0xd94a8ddb596b8046ec0f1b87e0e4c1c35a3e744bb75979244ed84df70ba6eb72>

2- Buying when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xdf05bb62adfdc89defd4f1745af83e52c59ee28cffa3a5e8fdc8b739f3fdc061>

3- Selling when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xf0468501fdb9d0b7349a7016e6ec7ad22acb3e95fa0d35b0b093fbe028bed810>

4- Transferring when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xf636cf59f4dc1fc11fee0813983398a3db60d878baa7861a28aa6bc95742b14e>

5- Buying from a regular wallet (0-100% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xaa5ca72580c8ef03ef501528bbf9bdb8e1869b8e95ba0384c929ae45aaf2af5a>

6- Selling from a regular wallet (0-100% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xb1f189b66cbbbbdf9e61bf497c83566fedcdef224c6ad737b1125b4d349f48f8>

7- Transferring from a regular wallet (0-100% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x16594a350bee67b71a595560ab8fcb60cea3897385fa05cb98e7b21f8ae87148>

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# MANUAL TESTING

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**Missing logic** – Lack of event emission

Severity: **Informational**

function: `_takeMarketing` - `_takeBurnFee` - `_takeRnDFee`

Status: Open

## Overview:

Blockchain explorers may not show holders correctly because contract is not emitting “Transfer” events when taking fee (marketing, burn, RnD).

## Suggestion

Emit events from this function after taking fees:

Sample code:

```
function _takeRnDFee(address from, uint256 tRnD) private {
    uint256 currentRate = _getRate();
    uint256 rRnD = tRnD.mul(currentRate);
    _rOwned[_RnDTax] = _rOwned[_RnDTax].add(rRnD);
    if (!_isExcluded[_RnDTax]) _tOwned[_RnDTax] = _tOwned[_RnDTax].add(tRnD);
    emit Transfer(from, _RnDTax, tRnD);
}
```



# DISCLAIMER

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# ABOUT AUDITACE

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We specialize in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



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