



JUDGE TORRES Token

RugfreeCoins Verified on September 27th, 2023

Overview

- No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- The owner can't pause trading once it's enabled
- X The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- X The owner can change fees without any limit.
- X The owner can blacklist wallets.
- The owner can't set a max wallet limit
- ▼ The owner can't claim the contract's balance of its own token.

HIGH SEVERITY ISSUES

The owner can change all fees without any limitation; if the owner changes them to a very high amount, it will pause trading.

```
function setXRPRewardsFee(uint256 value) external onlyOwner {
    XRPRewardsFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}

function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}
```

The owner can blacklist any wallet from the contract

```
function blacklistAddress(address account, bool value) external onlyOwner {
    _isBlacklisted[account] = value;
}
```

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function startTrading() external onlyOwner {
    tradingEnabled = true;
}
```

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Audit details



Audited project

JUDGE TORRES Token



Contract Address

0x23b126c1B1FDb64531Fe3e086E9DcD11C392436A



Client contact

JUDGE TORRES Token Team



Blockchain

Binance Smart Chain



Project website

https://judgetorres.vip/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the JUDGE TORRES Token Team to perform an audit of the smart contract.

https://bscscan.com/token/0x23b126c1B1FDb64531Fe3e086E9DcD11C392436A

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 15 % tax when buying

5% of trade goes to the marketing wallet in XRP 8% of trade is distributed among holders as rewards in XRP. 2% of trade goes to the Liquidity pool.

▲ 16 % tax when selling (Extra 1% sell fee goes to the contract)

5% of trade goes to the marketing wallet in XRP 8% of trade is distributed among holders as rewards in XRP. 2% of trade goes to the Liquidity pool.

Target market and the concept

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part in the JUDGE TORRES token ecosystem.
- Anyone who's interested in taking part in the future plans of JUDGE TORRES Token.
- Anyone who's interested in making financial transactions with any other party using JUDGE TORRES Token as the currency.

Potential to grow with score points

→ Project efficiency	8 / 10
* Project uniqueness	7 / 10
Information quality	8/10
Service quality	8/10
System quality	8 / 10
impact on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
	6 / 10
Smart contract functionality assessment	6 / 10
Total Score	7.6 / 10

Contract details

Token contract details for 27th of September 2023

Contract name	JUDGE TORRES
Contract address	0x23b126c1B1FDb64531Fe3e086E9DcD11C392436A
Token supply	1,000,000,000
Token ticker	JAT
Decimals	18
Token holders	8
Transaction count	10
Contract deployer address	0xf50b880De83aC0cF3B7c092E2Ea16dBcd17B255C
Contract's current owner address	0xf50b880De83aC0cF3B7c092E2Ea16dBcd17B255C
Marketing wallet	0x4b4364E15Bc84801B7994705Ab65fE4100C3595e
Dividend Tracker	0x289A1139Cf63A2C313A77F52B0fc81A1759E2C0C

Contract code function details

Nº	Category	Item	Result
		ERC20 Token standards	PASS -
		Compile errors	PASS +
		Compiler version security	MEDIUM -
		Visibility specifiers	PASS +
		Gas consumption	LOW -
1	Coding conventions	SafeMath features	PASS +
		Fallback usage	PASS -
		tx.origin usage	PASS +
		Deprecated items	PASS +
		Redundant code	PASS +
		Overriding variables	PASS +
		Authorization of function call	PASS +
2	Function call audit	Low level function (call/delegate call) security	PASS -
_	Function can addit	Returned value security	PASS +
		Self destruct function security	PASS +
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	PASS +
		Business implementation	PASS +
4	Integer overflow/underflow		PASS +
5	Reentrancy		PASS +
6	Exceptional reachable state		PASS +
7	Transaction ordering dependence		PASS +
8	Block properties dependence		PASS +
9	Pseudo random number generator (PRI	NG)	PASS +
10	DoS (Denial of Service)		PASS +
11	Token vesting implementation		PASS +
12	Fake deposit		PASS +
13	Event security		PASS -

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
UDGETORRES	Implementation	ERC20, Ownable		
L		Public !	•	ERC20
L		External	(S. D.)	NO !
L	updateDividendTracker	Public !	•	onlyOwne
L	updateUniswapV2Router	Public !	•	onlyOwne
L	excludeFromFees	Public !	•	onlyOwne
L	excludeMultipleAccountsFromFees	Public !	•	onlyOwne
L	setMarketingWallet	External		onlyOwne
L	setXRPRewardsFee	External	•	onlyOwne
L	setLiquiditFee	External	•	onlyOwne
L	setMarketingFee	External	•	onlyOwne
L	startTrading	External	•	onlyOwne
L	setAutomatedMarketMakerPair	Public !		onlyOwne
L	blacklistAddress	External	•	onlyOwne
L	_setAutomatedMarketMakerPair	Private 🔐	•	
L	updateGasForProcessing	Public !	•	onlyOwne
L	updateClaimWait	External	•	onlyOwne
L	getClaimWait	External		NO !
L	getTotalDividendsDistributed	External		NO !
L	isExcludedFromFees	Public !		NO !

L	getAccountAtIndex	Public !	NO !
L	getAccount	Public !	NO !
L	getNumberOfTokenHolders	External !	NO !
L	getLastProcessedIndex	External !	NO !
L	updateClaimWait	External !	onlyOwne
L	excludeFromDividends	External !	onlyOwne
L	withdrawDividend	Public !	NO !
L	_transfer	Internal 🔒	
L		Public !	Dividend Paying Token
UDGETORRES Dividend Tracker	Implementation	Ownable, Dividend Paying Token	
L	swapAndSendDividends	Private 🔐	
	addLiquidity	Private 🔐	
L	swapTokensForXRP	Private 🔐	
L	swapTokensForEth	Private 🔐	
L	swapAndLiquify	Private 🔐	
L	swapAndSendToFee	Private 🔐	
L	_transfer	Internal 🔒	
L	getNumberOfDividendTokenHolders	External !	NO !
L .	getLastProcessedIndex	External !	NO !
L	claim	External !	NO !
L	processDividendTracker	External !	NO !
L	getAccountDividendsInfoAtIndex	External	NO !
L	getAccountDividendsInfo	External !	NO !
L	excludeFromDividends	External !	onlyOwne
L	dividendTokenBalanceOf	Public !	NO !
L	withdrawableDividendOf	Public !	NO !

L	canAutoClaim	Private 🔐	
L	setBalance	External !	onlyOwne
L	process	Public !	NO!
L	processAccount	Public	onlyOwne
DividendPaying Token	Implementation	ERC20, Ownable, Dividend Paying Token Interface, Dividend Paying Token Optional Interface	
L		Public !	ERC20
L	distributeXRPDividends	Public !	onlyOwne
L	withdrawDividend	Public !	NO !
L	_withdrawDividendOfUser	Internal 🔒	•
L	dividendOf	Public !	NO !
L	withdrawableDividendOf	Public !	NO !
L	withdrawnDividendOf	Public !	NO !
L	accumulativeDividendOf	Public !	NO !
L	_transfer	Internal 🔒	•
L	_mint	Internal 🔒	
L	_burn	Internal 🔒	•
L	_setBalance	Internal 🔒	
ERC20	Implementation	Context, IERC20, IERC20 Metadata	
L		Public !	NO!
L	name	Public !	NO !
L	symbol	Public !	NO !

L	decimals	Public !	NO !
L	totalSupply	Public !	NO !
L	balanceOf	Public !	NO !
L	transfer	Public !	NO !
L	allowance	Public	NO !
L	approve	Public !	NO !
L	transferFrom	Public !	NO !
L	increaseAllowance	Public !	NO !
L	decreaseAllowance	Public !	NO !
L	_transfer	Internal 🔒	•
L	_mint	Internal 🔒	
L	_burn	Internal 🔒	•
L	_approve	Internal 🔒	•
L	_beforeTokenTransfer	Internal 🔒	
IERC20	Interface		
L	totalSupply	External	NO !
L	balanceOf	External !	NO !
L	transfer	External	NO !
L	allowance	External	NO !
L	approve	External !	NO !
L	transferFrom	External !	NO !
IERC20 Metadata	Interface	IERC20	
L	name	External !	NO !
L	symbol	External !	NO !
L	decimals	External !	NO !
Context	Implementation		

L	withdrawDividend	External	NO !
L	dividendOf	External !	NO !
ividendPaying okenInterface	Interface		
L	toUint256Safe	Internal 🔓	
L	abs	Internal 🔒	
L	add	Internal 🔒	
L	sub	Internal 🔒	
L	div	Internal 🔒	
L	mul	Internal 🔒	
SafeMathInt	Library		
	tomizoodite	ancondi	
L	toInt256Safe	Internal 🔒	
SafeMathUint	Library		
_	mod	Internal 🔒	
L	mod	Internal A	
L	div	Internal A	
L	div	Internal 🔒	
L	mul	Internal 🔒	
L	sub	Internal 🔒	
L	sub	Internal 🔒	
L	add	Internal 🔒	
SafeMath L	Library		
L	_msgData	Internal 🔒	
L	_msgSender	Internal 🔒	

DividendPaying TokenOptionalI nterface	Interface		
L	withdrawableDividendOf	External	NO !
L	withdrawnDividendOf	External !	NO !
L	accumulativeDividendOf	External	NO !
Ownable	Implementation	Context	
L		Public !	NO!
L	owner	Public !	NO !
L	renounceOwnership	Public !	onlyOwne
L	transferOwnership	Public !	onlyOwne
Iterable Mapping	Library		
L	get	Public !	NO !
L	getIndexOfKey	Public !	NO !
L	getKeyAtIndex	Public !	NO !
L	size	Public !	NO !
L	set	Public !	NO!
L	remove	Public !	NO !
IUniswapV2 Pair	Interface		
L	name	External !	NO !
L	symbol	External !	NO !
L	decimals	External !	NO !
L	totalSupply	External	NO !
L	balanceOf	External	NO !
L	allowance	External	NO !
L	approve	External	NO !

L	transfer	External	NO!
L	transferFrom	External	NO!
L	DOMAIN_SEPARATOR	External	NO !
L	PERMIT_TYPEHASH	External	NO !
L	nonces	External	NO !
L	permit	External	NO !
L	MINIMUM_LIQUIDITY	External	NO !
L	factory	External	NO !
L	token0	External	NO !
L	token1	External	NO !
L	getReserves	External	NO !
L	price0CumulativeLast	External	NO !
L	price1CumulativeLast	External	NO !
L	kLast	External	NO !
L	mint	External	NO!
L	burn	External	NO!
L	swap	External	NO!
L	skim	External	NO!
L	sync	External	NO!
L	initialize	External	NO!
IUniswapV2 Factory	Interface		
L	feeTo	External	NO !
L	feeToSetter	External	NO !
L	getPair	External	NO !
L	allPairs	External	NO !
L	allPairsLength	External	NO !
L	createPair	External	NO !
L	setFeeTo	External	NO !

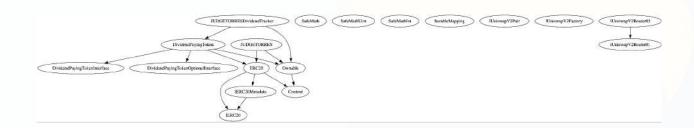
UniswapV2	Interface			
Router01	interrace			
L	factory	External		NO !
L	WETH	External		NO !
L	addLiquidity	External		NO !
L	addLiquidityETH	External		NO !
L	removeLiquidity	External		NO !
L	removeLiquidityETH	External		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External		NO !
L	swapExactETHForTokens	External	S	NO !
L	swapTokensForExactETH	External		NO !
L	swapExactTokensForETH	External		NO !
L	swapETHForExactTokens	External		NO !
L	quote	External		NO !
L	getAmountOut	External		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
UniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTra nsferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupporti ngFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingF eeOnTransferTokens	External		NO !

L	swapExactETHForTokensSupportingFee OnTransferTokens	External	S	NO !
L	swapExactTokensForETHSupportingFee OnTransferTokens	External		NO !

Legend

Symbol	Meaning		
	Function can modify state		
S	Function is payable		

Inheritance Hierarchy



Security issue checking status

High severity issues

The owner can change all fees without any limitation; if the owner changes them to a very high amount, it will pause trading.

```
function setXRPRewardsFee(uint256 value) external onlyOwner {
    XRPRewardsFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}

function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}
```

The owner can blacklist any wallet from the contract

```
function blacklistAddress(address account, bool value) external onlyOwner {
    _isBlacklisted[account] = value;
}
```

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function startTrading() external onlyOwner {
    tradingEnabled = true;
}
```

Medium severity issues

Utilizing a very old version of Solidity in a token contract can introduce various issues and risks.

```
pragma solidity ^0.6.2;
```

Low severity issues

When excluding multiple wallets from fees, the owner can input a wallet array. However, if the owner provides an exceedingly large wallet array, it may fail due to the gas limit.

```
function excludeMultipleAccountsFromFees(
   address[] calldata accounts,
   bool excluded
) public onlyOwner {
   for (uint256 i = 0; i < accounts.length; i++) {
      _isExcludedFromFees[accounts[i]] = excluded;
   }
   emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}</pre>
```

When sending fees and dividends, both can be swapped to XRP together, rather than swapping them separately, to reduce gas fees.

```
uint256 marketingTokens = contractTokenBalance
    .mul(marketingFee)
    .div(totalFees);
swapAndSendToFee(marketingTokens);

uint256 swapTokens = contractTokenBalance.mul(liquidityFee).div(
    totalFees
);
swapAndLiquify(swapTokens);

uint256 sellTokens = balanceOf(address(this));
swapAndSendDividends(sellTokens);
```

Owner privileges

The owner can update the dividend tracker

```
function updateDividendTracker(address newAddress) public onlyOwner {
        require(
            newAddress != address(dividendTracker),
            "JUDGETORRES: The dividend tracker already has that address"
        );
        JUDGETORRESDividendTracker newDividendTracker = JUDGETORRESDividendTracker(
                payable(newAddress)
            );
        require(
            newDividendTracker.owner() == address(this),
            "JUDGETORRES: The new dividend tracker must be owned by the JUDGETORRES
token contract"
        );
        newDividendTracker.excludeFromDividends(address(newDividendTracker));
        newDividendTracker.excludeFromDividends(address(this));
        newDividendTracker.excludeFromDividends(owner());
        newDividendTracker.excludeFromDividends(address(uniswapV2Router));
        emit UpdateDividendTracker(newAddress, address(dividendTracker));
        dividendTracker = newDividendTracker;
```

The owner can change the router address

```
function updateUniswapV2Router(address newAddress) public onlyOwner {
    require(
        newAddress != address(uniswapV2Router),
        "JUDGETORRES: The router already has that address"
    );
    emit UpdateUniswapV2Router(newAddress, address(uniswapV2Router));
    uniswapV2Router = IUniswapV2Router02(newAddress);
    address _uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory())
        .createPair(address(this), uniswapV2Router.WETH());
    uniswapV2Pair = _uniswapV2Pair;
}
```

❖ The owner can include/exclude wallets from fees

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    require(
        _isExcludedFromFees[account] != excluded,
        "JUDGETORRES: Account is already the value of 'excluded'"
);
    _isExcludedFromFees[account] = excluded;
emit ExcludeFromFees(account, excluded);
}
```

The owner can include/exclude multiple wallets from fees

```
function excludeMultipleAccountsFromFees(
   address[] calldata accounts,
   bool excluded
) public onlyOwner {
   for (uint256 i = 0; i < accounts.length; i++) {
      _isExcludedFromFees[accounts[i]] = excluded;
   }
   emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}</pre>
```

The owner can change marketing wallet

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

The owner can change all fees

```
function setXRPRewardsFee(uint256 value) external onlyOwner {
    XRPRewardsFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}

function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = XRPRewardsFee.add(liquidityFee).add(marketingFee);
}
```

The owner can enable trading, but once enabled can not disable it again

```
function startTrading() external onlyOwner {
    tradingEnabled = true;
}
```

The owner can add/remove new lp pairs

```
function setAutomatedMarketMakerPair(
    address pair,
    bool value
) public onlyOwner {
    require(
        pair != uniswapV2Pair,
        "JUDGETORRES: The PancakeSwap pair cannot be removed from
automatedMarketMakerPairs"
    );
    _setAutomatedMarketMakerPair(pair, value);
}
```

The owner can blacklist wallets from the contract

```
function blacklistAddress(address account, bool value) external onlyOwner {
    _isBlacklisted[account] = value;
}
```

The owner can update the maximum gas limit to process the reward tracker

The owner can change the auto reward claim and wait

```
function updateClaimWait(uint256 claimWait) external onlyOwner {
    dividendTracker.updateClaimWait(claimWait);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

