



Grok Tether Token

RugfreeCoins Verified on December 26th, 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.
- The owner can't change fees over 10%.
- The owner can't 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 must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

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Audit details



Audited project

Grok Tether Token



Contract Address

0x3d2C6366226e044374C5F72Ff9fBd470c395E6E8



Client contact

Grok Tether Token Team



Blockchain

Binance Smart chain



Project website

https://www.groktether.com/

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 Grok Tether Token Team to perform an audit of the smart contract.

https://bscscan.com/token/0x3d2C6366226e044374C5F72Ff9fBd470c395E6E8

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

▲ 5% tax when buying & selling

4% of trade goes to the marketing wallet in BNB 1% of trade goes to the holders in USDT

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 Grok Tether token ecosystem.
- Anyone who's interested in taking part in the future plans of Grok Tether Token.
- Anyone who's interested in making financial transactions with any other party using Grok Tether Token as the currency.

Potential to grow with score points

→ Project efficiency	8 / 10
* Project uniqueness	8 / 10
Information quality	8 / 10
👌 Service quality	8 / 10
System quality	8 / 10
Mark on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
	10 / 10
	10 / 10
▼ Total Score	8.5 / 10

Contract details

Token contract details for 26th of December 2023

Contract name	Grok Tether
Contract address	0x3d2C6366226e044374C5F72Ff9fBd470c395E6E8
Token supply	1,000,000,000
Token ticker	\$GROKTETHER
Decimals	18
Token holders	2
Transaction count	2
Contract deployer address	0xcE399FbD1dda7FdDE7474BBd3D464242bc9a3ABF
Contract's current owner address	0xcE399FbD1dda7FdDE7474BBd3D464242bc9a3ABF
Marketing wallet	0xcE399FbD1dda7FdDE7474BBd3D464242bc9a3ABF
Dividend Tracker	0x3042C711226EF9e88644415b9F8D2dc2D79193Df

Contract code function details

Nº	Category	Item	Result
		ERC20 Token standards	PASS -
		Compile errors	PASS -
		Compiler version security	PASS -
		Visibility specifiers	PASS -
		Gas consumption	PASS -
1	Coding conventions	SafeMath features	LOW -
		Fallback usage	PASS -
		tx.origin usage	PASS +
		Deprecated items	PASS +
		Redundant code	PASS +
		Overriding variables	PASS •
		Authorization of function call	PASS -
2	2 Function call audit	Low level function (call/delegate call) security	PASS -
		Returned value security	PASS -
		Self destruct function security	PASS +
		Access control of owners	HIGH & LOW ISSUES
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 (PR	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
SafeMath	Library			
L	tryAdd	Internal 🔒		
L	trySub	Internal 🔒		
L	tryMul	Internal 🔒		
L	tryDiv	Internal 🔒		
L	tryMod	Internal 🔒		
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
L	sub	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
'		<u>'</u>		
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
Ownable	Implementation	Context		
L		Public !		NO !

L	owner	Public !	NO !
L	_checkOwner	Internal 🔒	
L	renounceOwnership	Public !	onlyOwner
L	transferOwnership	Public !	onlyOwner
L	_transferOwnership	Internal 🔒	•
'		'	<u>'</u>
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 !
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	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	_spendAllowance	Internal 🔒	
L	_beforeTokenTransfer	Internal 🔒	
L	_afterTokenTransfer	Internal 🔒	
		'	'
SafeMathInt	Library		
L	mul	Internal 🔒	
L	div	Internal 🔒	
L	sub	Internal 🔒	
L	add	Internal 🔒	
L	abs	Internal 🔓	
L	toUint256Safe	Internal 🔓	
SafeMathUint	Library		
L	toInt256Safe	Internal 🔒	
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 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 !
L	setFeeToSetter	External !	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 !
UniswapV2 Router01	Interface			
	Interface factory	External !		NO !
Router01		External !		NO !
Router01	factory		•	
Router01	factory WETH	External !	S D	NO !
Router01 L L	factory WETH addLiquidity	External !	• • • • • • • • • • • • • • • • • • •	NO !
Router01 L L L	factory WETH addLiquidity addLiquidityETH	External ! External ! External !		NO ! NO ! NO !
Router01 L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity	External ! External ! External ! External !		NO! NO! NO!
Router01 L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity removeLiquidity	External ! External ! External ! External ! External !		NO! NO! NO! NO!
Router01 L L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity removeLiquidityETH	External ! External ! External ! External ! External ! External !		NO ! NO ! NO ! NO ! NO ! NO !
Router01 L L L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity removeLiquidityETH removeLiquidityETH removeLiquidityWithPermit	External !		NO !
Router01 L L L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity removeLiquidityETH removeLiquidityETH removeLiquidityWithPermit removeLiquidityETHWithPermit	External !		NO! NO! NO! NO! NO! NO! NO! NO!
Router01 L L L L L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity removeLiquidityETH removeLiquidityETH removeLiquidityWithPermit removeLiquidityETHWithPermit swapExactTokensForTokens swapTokensForExactTokens	External !	•	NO! NO! NO! NO! NO! NO! NO! NO! NO!
Router01 L L L L L L L L L L	factory WETH addLiquidity addLiquidityETH removeLiquidity removeLiquidityETH removeLiquidityETH removeLiquidityWithPermit removeLiquidityETHWithPermit swapExactTokensForTokens swapTokensForExactTokens swapExactETHForTokens	External ! External !	•	NO !

L	quote	External		NO !
L	getAmountOut	External		NO !
L	getAmountIn	External		NO !
L	getAmountsOut	External		NO !
L	getAmountsIn	External		NO I
	ged unountom	External		110
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTr ansferTokens	External		NO !
L	removeLiquidityETHWithPermitSupporti ngFeeOnTransferTokens	External		NO !
L	swapExactTokensForTokensSupporting FeeOnTransferTokens	External		NO !
L	swapExactETHForTokensSupportingFe eOnTransferTokens	External	S	NO !
L	swapExactTokensForETHSupportingFe eOnTransferTokens	External		NO !
Dividend PayingToken Interface	Interface			
L	dividendOf	External !		NO !
L	withdrawDividend	External !		NO !
Dividend PayingToken Optional Interface	Interface			
L	withdrawableDividendOf	External		NO !
L	withdrawnDividendOf	External		NO !
L	accumulativeDividendOf	External !		NO !
Dividend PayingToken	Implementation	ERC20, Ownable, Dividend		

		PayingToken Interface, Dividend PayingToken Optional Interface		
L		Public !		ERC20
L	distributeDividends	Public !		onlyOwner
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 🔒	•	
Dividend Tracker	Implementation	Ownable, Dividend PayingToken		
L		Public !	•	Dividend Paying Token
L	_transfer	Internal 🔒		
L	withdrawDividend	Public !		NO !
L	updateMinimumTokenBalanceForDivid ends	External !		onlyOwner
L	excludeFromDividends	External		onlyOwner
L	updateClaimWait	External		onlyOwner
L	setLastProcessedIndex	External		onlyOwner
L	getLastProcessedIndex	External		NO !
L	getNumberOfTokenHolders	External		NO !

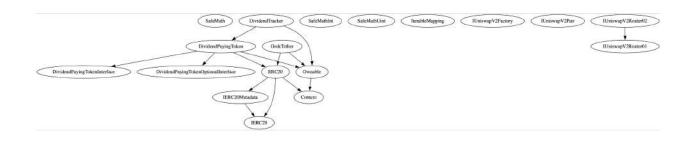
L	getAccount	Public !		NO !
L	getAccountAtIndex	Public !		NO !
L	canAutoClaim	Private 🔐		
L	setBalance	External !		onlyOwne
L	process	Public !		NO !
L	processAccount	Public !		onlyOwne
				'
GrokTether	Implementation	ERC20, Ownable		
L		Public		ERC20
L		External	(\$	NO !
L	withdrawStuckTokens	External !	•	onlyOwne
L	withdrawStuckETH	External !		onlyOwne
L	isContract	Internal 🔒		
L	_setAutomatedMarketMakerPair	Private 🔐		
L	updateBuyFees	External !		onlyOwne
L	updateSellFees	External !		onlyOwne
L	setWhitelistStatus	External !		onlyOwne
L	iswhitelisted	Public !		NO !
L	setmarketingWallet	External !		onlyOwne
L	enableTrading	External !		onlyOwne
L	_transfer	Internal 🔒		
L	swapAndSendDividends	Private 🔐		
L	setSwapTokensAtAmount	External !		onlyOwne
L	updateGasForProcessing	Public !		onlyOwne
L	updateMinimumBalanceForDividends	External		onlyOwne
L	updateClaimWait	External !		onlyOwne
L	getClaimWait	External !		NO !
L	getTotalDividendsDistributed	External !		NO !
L	withdrawableDividendOf	Public !		NO !

L	dividendTokenBalanceOf	Public !	NO !
L	totalRewardsEarned	Public !	NO !
L	excludeFromDividends	External	onlyOwner
L	getAccountDividendsInfo	External	NO !
L	getAccountDividendsInfoAtIndex	External !	NO !
L	processDividendTracker	External	NO !
L	claim	External	NO !
L	claimAddress	External	onlyOwner
L	getLastProcessedIndex	External	NO !
L	setLastProcessedIndex	External	onlyOwner
L	getNumberOfDividendTokenHolders	External	NO !

Legend

Symbol	Meaning	
	Function can modify state	
(S)	Function is payable	

Inheritance Hierarchy



Security issue checking status

High severity issues

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

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

Medium severity issues

No medium severity issues found

Low severity issues

The owner can alter the minimum token threshold required to receive rewards without any limitations. If the owner sets this threshold to the total supply, no one will be eligible to receive rewards.

```
function updateMinimumBalanceForDividends(
    uint256 newMinimumBalance
) external onlyOwner {
    dividendTracker.updateMinimumTokenBalanceForDividends(
        newMinimumBalance
    );
}
```

The contract is using the SafeMath library, but starting from Solidity 0.8.0 onward, SafeMath is built-in.

```
* NOTE: `SafeMath` is generally not needed starting with Solidity 0.8, since the compiler

* now has built in overflow checking.

*/
library SafeMath {
```

Owner privileges

Owner can get any bep20 tokens from the contract (can not get native tokens)

```
function withdrawStuckTokens(address BEP20_token) external onlyOwner {
   bool success = IERC20(BEP20_token).transfer(
        msg.sender,
        IERC20(BEP20_token).balanceOf(address(this))
   );
   require(success, "transferring tokens failed!");
   require(
        BEP20_token != address(this),
        "Owner cannot claim native tokens"
   );
}
```

Owner can withdraw BNB from the contract

```
function withdrawStuckETH() external onlyOwner {
    (bool success, ) = address(msg.sender).call{
        value: address(this).balance
    }("");
    require(success, "transferring ETH failed");
}
```

♦ Owner can change all buy and sell fees maximum up to 20% (each 10% max)

```
000
   function updateBuyFees(
       uint256 _marketingFeeOnBuy,
       uint256 _rewardsFeeOnBuy
    ) external onlyOwner {
       marketingFeeOnBuy = _marketingFeeOnBuy;
       rewardsFeeOnBuy = _rewardsFeeOnBuy;
       totalBuyFee = marketingFeeOnBuy + rewardsFeeOnBuy;
        require(totalBuyFee <= 10, "Buy fee cannot be more than 10%");
       emit BuyFeesUpdated(totalBuyFee);
   function updateSellFees(
       uint256 _marketingFeeOnSell,
       uint256 _rewardsFeeOnSell
    ) external onlyOwner {
        marketingFeeOnSell = _marketingFeeOnSell;
        rewardsFeeOnSell = _rewardsFeeOnSell;
       totalSellFee = marketingFeeOnSell + rewardsFeeOnSell;
       require(totalSellFee <= 10, "Sell fee cannot be more than 10%");
       emit SellFeesUpdated(totalSellFee);
   }
```

Owner can include/exclude wallets from fees

```
function setWhitelistStatus(
   address _wallet,
   bool _status
) external onlyOwner {
   whitelisted[_wallet] = _status;
   emit Whitelist(_wallet, _status);
}
```

Owner can change marketing wallet

```
function setmarketingWallet(address _newmarketing) external onlyOwner {
    require(
        _newmarketing != address(0),
        "can not set marketing to dead wallet"
    );
    marketingWallet = _newmarketing;
    emit marketingWalletChanged(_newmarketing);
}
```

Owner can enable trading, once enabled can not disable again

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

Owner can change swap point minimum up to 0.001%

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner {
    require(
        newAmount > totalSupply() / 100_000,
        "SwapTokensAtAmount must be greater than 0.001% of total supply"
    );
    swapTokensAtAmount = newAmount;
}
```

Owner can change maximum gas usage to process reward tracker at a time

```
function updateGasForProcessing(uint256 newValue) public onlyOwner {
    require(
        newValue >= 200_000 && newValue <= 500_000,
        "gasForProcessing must be between 200,000 and 500,000"
);
    require(
        newValue != gasForProcessing,
        "Cannot update gasForProcessing to same value"
);
    emit GasForProcessingUpdated(newValue, gasForProcessing);
    gasForProcessing = newValue;
}</pre>
```

Owner can change minimum token amount to hold to receive rewards

```
function updateMinimumBalanceForDividends(
    uint256 newMinimumBalance
) external onlyOwner {
    dividendTracker.updateMinimumTokenBalanceForDividends(
        newMinimumBalance
    );
}
```

Owner can include/exclude wallets from fees

```
function excludeFromDividends(address account) external onlyOwner {
    dividendTracker.excludeFromDividends(account);
}
```

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.

