

# AUDIT REPORT Secure Wise SMART CONTRACT AUDIT





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# **Overview**

Token Name: TinyTesla (TINT)

Methodology: Automated Analysis, Manual Code Review

Language: Solidity

Contract Address: 0x527aDld5BCEEl3a2952dl832bl80ll649A78266b

ContractLink: https://bscscan.com/address/0x527aDld5BCEEl3a2952dl832bl80ll649A78266b

Network: Binance Smart Chain (BSC)

Decimals: 9

**Supply:** 1,000,000,000,000,000

Website: <a href="https://www.tinytesla.co/">https://www.tinytesla.co/</a>

Twitter: -

Telegram: <a href="https://t.me/TinyTeslaofficial">https://t.me/TinyTeslaofficial</a>

Report Date: August 1, 2022

# **Quick Result**

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

## **Owner Privileges**



The owner can set fees up to 100%



The owner can't set the max tx amount "0" but can set very low amount



Auto liquidity is going to an externally owned account



The owner can't set max wallet token amount to "0" but can set very low amount



The owner can set a blacklist any account



The owner can exclude accounts from rewards



The owner can exclude accounts from fees



The owner can change swap settings



The owner can withdraw any token from the contract

## **Auditing Approach and Methodologies**

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

## Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

### Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

## **Risk Classification**

**High:** Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

**Medium:** Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.

**Low:** Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

Symbol	Meaning
•	Function can modify state
	Function is payable

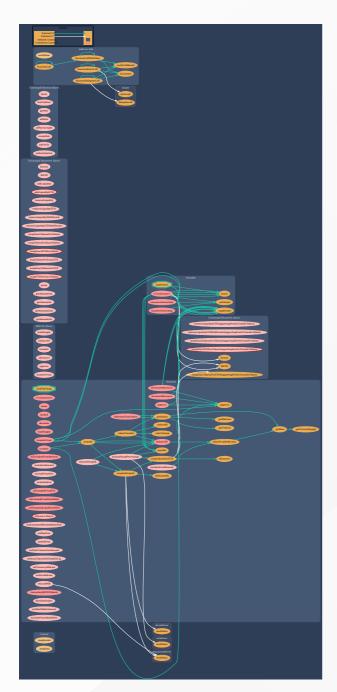
Context	Implementation			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
Ownable	Implementation	Context		
L		Public	•	NO
L	owner	Public [		NO
L	renounceOwnership	Public	•	onlyOv
L	transferOwnership	Public	•	onlyOw
L	_setOwner	Private 🕙	•	
IERC20	Interface			
L	totalSupply	External		NO
L	balanceOf	External		NO
L	transfer	External	•	NO
L	allowance	External		NO
L	approve	External	•	NO
L	transferFrom	External	•	NO
IUniswapV2Router01	Interface			
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	100	NO
L	swapTokensForExactETH	External	•	NO
L	swapExactTokensForETH	External	•	NO
L	swapETHForExactTokens	External		NO
L	quote	External		NO

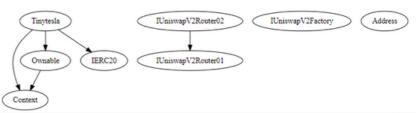
L	getAmountOut	External		NO
L	getAmountin	External		NO
L	getAmountsOut	External		NO
L	getAmountsIn	External		NO
IUniswapV2Router02	Interface	IUniswapV2Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External	•	NO
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	•	NO
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	•	NO
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External	100	NO
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External	•	NO
IUniswapV2Factory	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
Address	Library			
L	isContract	Internal 🖺		
L	sendValue	Internal 🦲	•	
L	functionCall	Internal 🦲	•	
L	functionCall	Internal 🦲	•	
L	functionCallWithValue	Internal 🦲	•	
L	functionCallWithValue	Internal 🦲	•	
L	functionStaticCall	Internal 🦲		
L	functionStaticCall	Internal 🦲		
L	functionDelegateCall	Internal 🦲	•	
L	functionDelegateCall	Internal 🦲	•	
L	verifyCallResult	Internal 🖺		

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 I	•	NO
L	isExcludedFromReward	Public I		NO
L	reflectionFromToken	Public I		NO!
L	tokenFromReflection	Public		NO
L	excludeFromReward	External	•	onlyOwner
L	includeInReward	External	•	onlyOwner
L	excludeFromFee	External [	•	onlyOwner
L	includeInFee	External [	•	onlyOwner
L	isExcludedFromFee	Public [		NO
L	isExcludedFromMaxWallet	Public		NO
L	setSwapAndLiquifyEnabled	Public [	•	onlyOwner
L		External [	TT-	NO
L	_reflectRfi	Private 🕙	•	
L	_takeToSwap	Private 🖺	•	
L	_getValues	Private 🖺		
L	_getTValues	Private 🎒		
L	_getRValues	Private 🕙		
L	_getRate	Private 🕙		
L	_getCurrentSupply	Private 🖺		
L	_approve	Private 🎒	•	
L	_transfer	Private 🎒	•	
L	_tokenTransfer	Private 🕙		

L	swapAndLiquify	Private 🎒		lockTheSwap
L	swapTokensForETH	Private 😷	•	
L	addLiquidity	Private 👚	•	
L	setAutomatedMarketMakerPair	External [	•	onlyOwner
L	setBuyFees	External [	•	onlyOwner
L	setSellFees	External [	•	onlyOwner
L	setMaxTransactionAmount	External [	•	onlyOwner
L	setNumTokensSellToAddToLiq	External [	•	onlyOwner
L	setTreasuryAddress	External [	•	onlyOwner
L	setDevAddress	External [	•	onlyOwner
L	manualSwapAll	External [	•	onlyOwner
L	manualSwapPercentage	External [	•	onlyOwner
L	rescueBNB	External [	•	onlyOwner
L	rescueAnyBEP20Tokens	Public	•	onlyOwner
L	blacklistSniper	External [	•	onlyOwner
L	setMaxWalletAmount	External [	•	onlyOwner
L	excludeFromMaxWallet	External [	•	onlyOwner

# **Inheritance Graph**







# **Contract Summary**

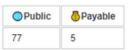
Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
4	4	1252	891	608	263	469	
4	4	1252	891	608	263	469	

#### Components

☑ Contracts	ELibraries	Interfaces	Abstract
1	1	4	2

#### **Exposed Functions**

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.



External	Internal	Private	Pure	View
56	76	14	10	28

#### StateVariables

Total	Public
35	19

#### Capabilities







## **Manual Review**

#### The owner can set fees up to 100%

```
function setBuyFees(uint8 _rfi,uint8 _treasury,uint8 _dev,uint8 _lp) external onlyOwner {
buyRates.rfi = _rfi;
buyRates.treasury = _treasury;
buyRates.dev = _dev;
buyRates.toSwap = _treasury + _dev + _lp;
buyRates.toSwap = _treasury + _dev + _lp;

function setSellFees(uint8 _rfi,uint8 _treasury,uint8 _dev,uint8 _lp) external onlyOwner {
sellRates.rfi = _rfi;
sellRates.treasury = _treasury;
sellRates.treasury = _treasury;
sellRates.treasury = _lp;
sellRates.toSwap = _treasury + _dev + _lp;

sellRates.toSwap = _treasury + _dev + _lp;

sellRates.toSwap = _treasury + _dev + _lp;
```

#### Recommendation

These functions should be provided arbitrary limits, e.g., put a **require** check that allows maximum limit etc.

#### The owner can't set the max tx amount "0" but can set very low amount

```
function setMaxTransactionAmount(
    uint256 _maxTxAmountBuyPct,
    uint256 _maxTxAmountSellPct

1184    uint256 _maxTxAmountSellPct

1185    ) external onlyOwner {
    maxTxAmountBuy = _tTotal / _maxTxAmountBuyPct; // 100 = 1%, 50 = 2% etc.
    maxTxAmountSell = _tTotal / _maxTxAmountSellPct; // 100 = 1%, 50 = 2% etc.

1188    }
```

#### Recommendation

These functions should be provided arbitrary limits, e.g., put a **require** check that allows minimum limit etc. if **set totalsupply** might cause pause the trading.

#### Auto liquidity is going to an externally owned account

```
function addLiquidity(uint256 tokenAmount, uint256 ETHAmount) private {
    // add the liquidity
    UniswapV2Router.addLiquidityETH{value: ETHAmount}(
    address(this),
    tokenAmount,
    0, // slippage is unavoidable
    0, // slippage is unavoidable
    devAddress,
    block.timestamp
    );
    emit LiquidityAdded(tokenAmount, ETHAmount);
    }
}
```

#### Recommendation

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Send LP tokens to dead address or unreachable address.

## **Manual Review**

#### The owner can't set max wallet token amount to "0" but can set very low amount

```
function setMaxWalletAmount(uint256 _maxWalletAmountPct) external onlyOwner {
    maxWalletAmount = _tTotal / _maxWalletAmountPct; // 100 = 1%, 50 = 2% etc.
    emit MaxWalletAmountUpdated(maxWalletAmount);
}
```

#### Recommendation

Authorizing privileged roles to change max wallet amount. Put a **require** check that allows minimum reasonable limit etc. if **set totalsupply** might cause pause trading.

#### The owner can set a blacklist any account

```
// Blacklist or Unblacklist bots or sniper
function blacklistSniper(address botAddress, bool isban) external onlyOwner {
    isBot[botAddress] = isban;
}
```

#### Recommendation

Authorizing privileged roles to add an account to blacklist and pause trade for any accounts. These cause can affect decentralization, remove blacklist function.

#### The owner can exclude accounts from rewards

```
//No current rfi - Tiered Rewarding Feature Applied at APP Launch
function excludeFromReward(address account) external onlyOwner {
require(!_isExcluded[account], "Account is already excluded");
if (_rOwned[account] > 0) {

__tOwned[account] = tokenFromReflection(_rOwned[account]);
}

__isExcluded[account] = true;
__excluded.push(account);
}
```

#### Recommendation

Authorizing privileged roles to exclude accounts from rewards. These cause can affect decentralization.

## **Manual Review**

#### The owner can exclude accounts from fees

```
function excludeFromFee(address account) external onlyOwner {

isExcludedFromFee[account] = true;

function includeInFee(address account) external onlyOwner {

isExcludedFromFee[account] = false;

isExcludedFromFee[account] = false;

}
```

#### Recommendation

Authorizing privileged roles to exclude accounts from fees. These cause can affect decentralization.

#### The owner can change swap settings

```
function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
    swapAndLiquifyEnabled = _enabled;
    emit SwapAndLiquifyEnabledUpdated(_enabled);
}
```

#### Recommendation

Authorizing privileged roles to enable or disable the swap. These cause can affect decentralization.

#### The owner can withdraw any token from the contract

#### Recommendation

Authorizing privileged roles to withdraw any token from the contract. Include native token too. Put a require check that allows **token!= address(this)** 

# **AUDIT REPORT** SecureWise **SMART CONTRACT AUDIT**

- https://github.com/securewise
  https://t.me/securewise
  https://securewise.info/

