



RUGFREECOINS



Star World Token

RugfreeCoins Verified on December 22nd, 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
- ✓ The owner can't change fees over 6%.
- ✓ 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 can adjust the swap point up to the total supply. If the owner sets the swap point to a significantly large amount, the swap may fail due to price impact issues.

```
function updateSwapTokensAtAmount(
    uint256 _swapTokensAtAmount
) external onlyOwner returns (bool) {
    require(
        _swapTokensAtAmount < totalSupply(),
        "Swap amount cannot be higher than total supply."
    );
    require(
        _swapTokensAtAmount >= (totalSupply() * 1) / 100000,
        "Swap amount cannot be lower than 0.001% total supply."
    );
    swapTokensAtAmount = _swapTokensAtAmount;
    return true;
}
```

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Audit details



Audited project

Star World Token



Contract Address

0xa33C428DFD77c2b35ab2B5839ce39ec8e91C46B3



Client contact

Star World Token Team



Blockchain

Binance Smart chain



Project website

<https://starwar.app/>

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 **Star World Token Team** to perform an audit of the smart contract.

<https://bscscan.com/token/0xa33C428DFD77c2b35ab2B5839ce39ec8e91C46B3>

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












▲ 3% tax when buying & selling

3% of trade goes to the marketing wallet in BNB

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 Star World token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Star World Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Star World 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
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	9 / 10
 Smart contract functionality assessment	9 / 10
 Total Score	8.3/ 10

Contract details

Token contract details for 22nd of December 2023































Contract name	Star World
Contract address	0xa33C428DFD77c2b35ab2B5839ce39ec8e91C46B3
Token supply	1,000,000,000
Token ticker	STW
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0x349BB193Cf7588cA07233Cf80d964885B73FaBa2
Contract's current owner address	0x349BB193Cf7588cA07233Cf80d964885B73FaBa2
Fee wallet	0x349BB193Cf7588cA07233Cf80d964885B73FaBa2

Contract code function details

Nº	Category	Item	Result
1	Coding conventions	ERC20 Token standards	PASS ▾
		Compile errors	PASS ▾
		Compiler version security	PASS ▾
		Visibility specifiers	PASS ▾
		Gas consumption	PASS ▾
		SafeMath features	PASS ▾
		Fallback usage	PASS ▾
		tx.origin usage	PASS ▾
		Deprecated items	PASS ▾
		Redundant code	LOW ▾
		Overriding variables	PASS ▾
2	Function call audit	Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
		Self destruct function security	PASS ▾
3	Business security & centralisation	Access control of owners	HIGH ▾
		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 (PRNG)		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	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	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 
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	verifyCallResultFromTarget	Internal 🔒		
L	verifyCallResult	Internal 🔒		
L	_revert	Private 🔒🔑		
Ownable	Implementation	Context		
L		Public !	🛑	NO !
L	owner	Public !		NO !
L	_checkOwner	Internal 🔒		
L	renounceOwnership	Public !	🛑	onlyOwner
L	transferOwnership	Public !	🛑	onlyOwner
L	_transferOwnership	Internal 🔒	🛑	
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	burn	External !		NO !
L	swap	External !		NO !
L	skim	External !		NO !
L	sync	External !		NO !
L	initialize	External !		NO !
IUniswapV2 Router01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !		NO !

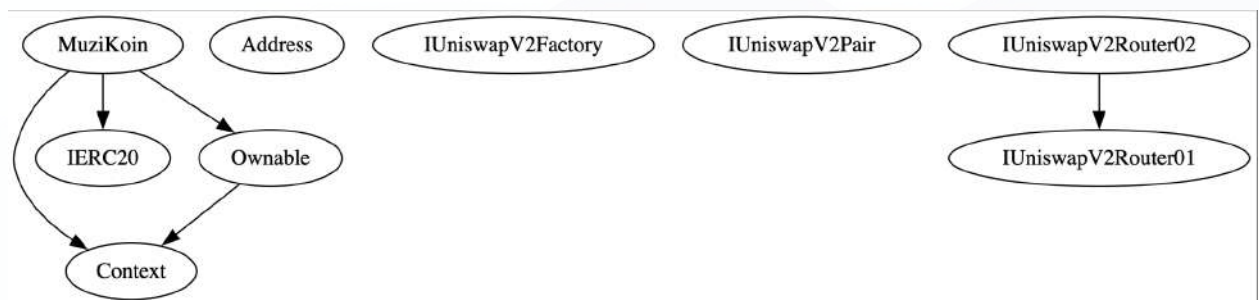
L	removeLiquidity	External !		NO !
L	removeLiquidityETH	External !		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !		NO !
L	swapTokensForExactETH	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 !
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
MuziKoin	Implementation	Context, IERC20, Ownable		
L		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	_approve	Private 🔒	🛑	
L	_transfer	Private 🔒	🛑	
L	swapAndLiquify	Public !	🛑	lockTheSwap
L	swapTokensForEth	Private 🔒	🛑	
L	_tokenTransfer	Private 🔒	🛑	
L	isExcludedFromFees	External !		NO !
L	setExcludeFromFees	External !	🛑	onlyOwner
L	setTokensToSwap	External !	🛑	onlyOwner
L	setSwapAndLiquifyEnabled	External !	🛑	onlyOwner
L	setMarketingWallet	External !	🛑	onlyOwner
L	setBuyFee	External !	🛑	onlyOwner
L	setSellFee	External !	🛑	onlyOwner
L	transferToAddressETH	Private 🔒	🛑	
L		External !	🟢	NO !
L	swapETHForTokens	Private 🔒	🛑	
L	recoverETHfromContract	External !	🛑	onlyOwner
L	recoverTokensFromContract	External !	🛑	onlyOwner

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

The owner can adjust the swap point up to the total supply. If the owner sets the swap point to a significantly large amount, the swap may fail due to price impact issues.

```
function updateSwapTokensAtAmount(
    uint256 _swapTokensAtAmount
) external onlyOwner returns (bool) {
    require(
        _swapTokensAtAmount < totalSupply(),
        "Swap amount cannot be higher than total supply."
    );
    require(
        _swapTokensAtAmount >= (totalSupply() * 1) / 100000,
        "Swap amount cannot be lower than 0.001% total supply."
    );
    swapTokensAtAmount = _swapTokensAtAmount;
    return true;
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

The contract does not check for maximum transaction limits, rendering all functions related to the maximum transaction limit redundant.

```
_excludeFromMaxTransactionAmount(address(0xdead), true);
_excludeFromMaxTransactionAmount(address(this), true);
_excludeFromMaxTransactionAmount(address(_uniswapV2Router), true);
_excludeFromMaxTransactionAmount(address(uniswapV2Pair), true);
_excludeFromMaxTransactionAmount(owner(), true);
```

Owner privileges

- ❖ Owner can change fee wallet

```
function updateFeeWallet(address _feeWallet) external onlyOwner {  
    _updateFeeWallet(_feeWallet);  
}
```

- ❖ Owner can change buy and sell fees up-to to 6% (each 3%)

```
function updateFees(uint256 _buyFee, uint256 _sellFee) public onlyOwner {  
    _updateFees(_buyFee, _sellFee);  
}  
  
function _updateFees(uint256 _buyFee, uint256 _sellFee) private {  
    require(_buyFee <= 30 && _sellFee <= 30, "Invalid fees"); // _buyFee and  
    _sellFee <= 3%  
    buyFee = _buyFee;  
    sellFee = _sellFee;  
}
```

- ❖ Owner can include/exclude wallets from fees

```
function excludeFromFees(address account, bool excluded) public onlyOwner {  
    _excludeFromFees(account, excluded);  
}
```

- ❖ Owner can add/remove new lp pairs

```
function setAutomatedMarketMakerPair(
    address pair,
    bool value
) public onlyOwner {
    require(
        pair != uniswapV2Pair,
        "The pair cannot be removed from automatedMarketMakerPairs"
    );
    require(pair != address(0), "Zero address");

    _excludeFromMaxTransactionAmount(pair, value);
    _setAutomatedMarketMakerPair(pair, value);
}
```

- ❖ Owner can change swap point

```
function updateSwapTokensAtAmount(
    uint256 _swapTokensAtAmount
) external onlyOwner returns (bool) {
    require(
        _swapTokensAtAmount < totalSupply(),
        "Swap amount cannot be higher than total supply."
    );
    require(
        _swapTokensAtAmount >= (totalSupply() * 1) / 100000,
        "Swap amount cannot be lower than 0.001% total supply."
    );
    swapTokensAtAmount = _swapTokensAtAmount;
    return true;
}
```

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.

Smart contract functional Status:	PASS ▾
Smart contract security Status:	HIGH ISSUES ▾
Number of risk issues:	2
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	5
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾