



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

MiniSports Token



Deployer address

0x77c352eaddf7a7d45b2a91b4099861b9b31453cc



Client contacts:

MiniSports Token team



Blockchain

Binance Smart Chain



Project website:

www.minisportstoken.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 below 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

TechRate was commissioned by MiniSports Token to perform an audit of smart contracts:

<https://bscscan.com/address/0x15fd9b1A9970855FBe6739C2bc220Af21f361284#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

Token contract details for 01.09.2021

Contract name	MiniSports Token
Contract address	0x15fd9b1A9970855FBe6739C2bc220Af21f361284
Total supply	1,000,000,000,000,000
Token ticker	MiniSports
Decimals	9
Token holders	3
Transactions count	3
Top 100 holders dominance	100.00%
Liquidity fee	13
Tax fee	2
Total fees	0
Uniswap V2 pair	0x18f35ff5a2a6572a635ba5d683b7cbcab25a2327
Contract deployer address	0x77c352eaddf7a7d45b2a91b4099861b9b31453cc
Contract's current owner address	0x77c352eaddf7a7d45b2a91b4099861b9b31453cc

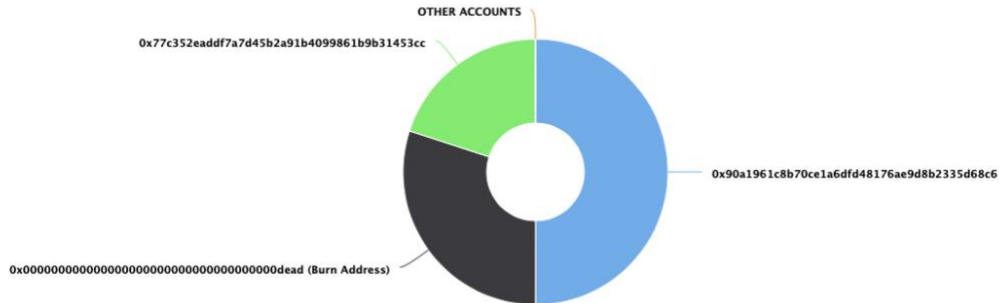
MiniSports Token Token Distribution

The top 100 holders collectively own 100.00% (1,000,000,000,000,000.00 Tokens) of MiniSports Token

Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 3

MiniSports Token Top 100 Token Holders

Source: BscScan.com



(A total of 1,000,000,000,000,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000.00 token)

MiniSports Token Contract Interaction Details

Time Series: Token Contract Overview


Tue 31, Aug 2021 - Tue 31, Aug 2021

Token Contract 0x15fd9b1A9970855FB6739C2bc220Af21f361284 (MiniSports Token)

Source: BscScan.com



MiniSports Token Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	 0x90a1961c8b70ce1a6dfd48176ae9d8b2335d68c6	500,000,000,001,048	50.0000%
2	Burn Address	300,000,000,000,000	30.0000%
3	0x77c352eaddf7a7d45b2a91b4099861b9b31453cc	199,999,999,998,952	20.0000%



Contract functions details

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner
- [Pub] getUnlockTime
- [Pub] getTime
- [Pub] lock #
 - modifiers: onlyOwner
- [Pub] unlock #

+ [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #

- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Pair

- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve #
- [Ext] transfer #
- [Ext] transferFrom #
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit #
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] burn #
- [Ext] swap #
- [Ext] skim #
- [Ext] sync #
- [Ext] initialize #

+ [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn

+ [Int] IUniswapV2Router02 (IUniswapV2Router01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #

- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + MiniSports (Context, IERC20, Ownable)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #
 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Pub] isExcludedFromReward
 - [Pub] totalFees
 - [Pub] minimumTokensBeforeSwapAmount
 - [Pub] buyBackSellLimitAmount
 - [Pub] deliver #
 - [Pub] reflectionFromToken
 - [Pub] tokenFromReflection
 - [Pub] excludeFromReward #
 - modifiers: onlyOwner
 - [Ext] includeInReward #
 - modifiers: onlyOwner
 - [Prv] _approve #
 - [Prv] _transfer #
 - [Prv] swapTokens #
 - modifiers: lockTheSwap
 - [Prv] buyBackTokens #
 - modifiers: lockTheSwap
 - [Prv] swapTokensForEth #
 - [Prv] swapETHForTokens #
 - [Prv] addLiquidity #
 - [Prv] _tokenTransfer #
 - [Prv] _transferStandard #
 - [Prv] _transferToExcluded #
 - [Prv] _transferFromExcluded #
 - [Prv] _transferBothExcluded #
 - [Prv] _reflectFee #
 - [Prv] _getValues
 - [Prv] _getTValues
 - [Prv] _getRValues
 - [Prv] _getRate
 - [Prv] _getCurrentSupply
 - [Prv] _takeLiquidity #
 - [Prv] calculateTaxFee
 - [Prv] calculateLiquidityFee
 - [Prv] removeAllFee #
 - [Prv] restoreAllFee #
 - [Pub] isExcludedFromFee
 - [Pub] excludeFromFee #

- modifiers: onlyOwner
- [Pub] includeInFee #
 - modifiers: onlyOwner
- [Pub] excludeFromSwapAndLiquify #
 - modifiers: onlyOwner
- [Pub] includeInSwapAndLiquify #
 - modifiers: onlyOwner
- [Prv] _getSellBnBAmount
- [Prv] _removeOldSellHistories #
- [Ext] SetBuyBackMaxTimeForHistories #
 - modifiers: onlyOwner
- [Ext] SetBuyBackDivisor #
 - modifiers: onlyOwner
- [Pub] GetBuyBackTimeInterval
- [Ext] SetBuyBackTimeInterval #
 - modifiers: onlyOwner
- [Ext] SetBuyBackRangeRate #
 - modifiers: onlyOwner
- [Pub] GetSwapMinutes
- [Ext] SetSwapMinutes #
 - modifiers: onlyOwner
- [Ext] setTaxFeePercent #
 - modifiers: onlyOwner
- [Ext] setBuyFee #
 - modifiers: onlyOwner
- [Ext] setSellFee #
 - modifiers: onlyOwner
- [Ext] setLiquidityFeePercent #
 - modifiers: onlyOwner
- [Ext] setBuyBackSellLimit #
 - modifiers: onlyOwner
- [Ext] setMaxTxAmount #
 - modifiers: onlyOwner
- [Ext] setMarketingDivisor #
 - modifiers: onlyOwner
- [Ext] setNumTokensSellToAddToBuyBack #
 - modifiers: onlyOwner
- [Ext] setMarketingAddress #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Pub] setBuyBackEnabled #
 - modifiers: onlyOwner
- [Pub] setAutoBuyBackEnabled #
 - modifiers: onlyOwner
- [Ext] prepareForPreSale #
 - modifiers: onlyOwner
- [Ext] afterPreSale #
 - modifiers: onlyOwner
- [Prv] transferToAddressETH #
- [Pub] changeRouterVersion #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Pub] transferForeignToken #
 - modifiers: onlyOwner

- [Ext] Sweep #
 - modifiers: onlyOwner
- [Ext] setAddressFee #
 - modifiers: onlyOwner
- [Ext] setBuyAddressFee #
 - modifiers: onlyOwner
- [Ext] setSellAddressFee #
 - modifiers: onlyOwner

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Low issues
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

1. Out of gas

Issue:

- The function `includeInReward()` uses the loop to find and remove addresses from the `_excluded` list. Function will be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
function includeInReward(address account↑) external onlyOwner() {
    require(!_isExcluded[account↑], "Account is not excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account↑) {
            _excluded[i] = _excluded[_excluded.length - 1];
            tOwned[account↑] = 0;
            _isExcluded[account↑] = false;
            _excluded.pop();
            break;
        }
    }
}
```

- The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns (uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (
            rOwned[_excluded[i]] > rSupply ||
            tOwned[_excluded[i]] > tSupply
        ) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(rOwned[_excluded[i]]);
        tSupply = tSupply.sub(tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

- The function `_transfer()` also uses the loop for calculating buyback amount if `_isAutoBuyBack` set true. It also could be aborted with `OUT_OF_GAS` exception if there will be a long sell history list.

```

for (uint i = 0; i < _sellHistories.length; i++) {
    if (_sellHistories[i].time >= startTime) {
        sumBnbAmount = sumBnbAmount.add(_sellHistories[i].bnbAmount);
        cnt = cnt + 1;
    }
}

```

- The function `_removeOldSellHistories()` also uses the loop for removing old sell history items. It also could be aborted with `OUT_OF_GAS` exception if there will be a long sell history list.

```

function _removeOldSellHistories() private {
    uint256 i = 0;
    uint256 maxStartTimeForHistories = block.timestamp - _buyBackMaxTimeForHistories;

    for (uint256 j = 0; j < _sellHistories.length; j++) {
        if (_sellHistories[j].time >= maxStartTimeForHistories) {
            _sellHistories[i].time = _sellHistories[j].time;
            _sellHistories[i].bnbAmount = _sellHistories[j].bnbAmount;

            i = i + 1;
        }
    }

    uint256 removedCnt = _sellHistories.length - i;

    for (uint256 j = 0; j < removedCnt; j++) {
        _sellHistories.pop();
    }
}

```

Recommendation:

Check that the arrays' length is not too big.

Notes:

- `addLiquidity` function is not used.

Owner privileges (In the period when the owner is not renounced)

- Owner can change tax and liquidity fees.

```
ftrace | funcSig
function setTaxFeePercent(uint256 taxFee↑) external onlyOwner() {
    _taxFee = taxFee↑;
}

ftrace | funcSig
function setLiquidityFeePercent(uint256 liquidityFee↑) external onlyOwner() {
    _liquidityFee = liquidityFee↑;
}
```

- Owner can change maximum transaction amount.

```
ftrace | funcSig
function setMaxTxAmount(uint256 maxTxAmount↑) external onlyOwner() {
    _maxTxAmount = maxTxAmount↑;
}
```

- Owner can exclude from the fee.

```
function excludeFromFee(address account↑) public onlyOwner {
    _isExcludedFromFee[account↑] = true;
}
```

- Owner can change marketingDivisor.

```
ftrace | funcSig
function setMarketingDivisor(uint256 divisor↑) external onlyOwner() {
    marketingDivisor = divisor↑;
}
```

- Owner can change minimum number of tokens to add to liquidity.

```
ftrace | funcSig
function setNumTokensSellToAddToLiquidity(uint256 _minimumTokensBeforeSwap↑) external onlyOwner() {
    minimumTokensBeforeSwap = _minimumTokensBeforeSwap↑;
}
```

- Owner can change buyBackUpperLimit.

```
ftrace | funcSig
function setBuybackUpperLimit(uint256 buyBackLimit↑) external onlyOwner() {
    buyBackUpperLimit = buyBackLimit↑ * 10**18;
}
```

- Owner can change marketing address.

```
ftrace | funcSig
function setMarketingAddress(address _marketingAddress↑) external onlyOwner() {
    marketingAddress = payable(_marketingAddress↑);
}
```

- Owner can enable and disable buyBack.

```
ftrace | funcSig
function setBuyBackEnabled(bool _enabled↑) public onlyOwner {
    buyBackEnabled = _enabled↑;
    emit BuyBackEnabledUpdated(_enabled↑);
}
```

- Owner can enable before and after presale modes.

```
ftrace | funcSig
function prepareForPreSale() external onlyOwner {
    setSwapAndLiquifyEnabled(false);
    _taxFee = 0;
    _liquidityFee = 0;
    _maxTxAmount = 1000000000 * 10**6 * 10**9;
}
```

```
ftrace | funcSig
function afterPreSale() external onlyOwner {
    setSwapAndLiquifyEnabled(true);
    _taxFee = 2;
    _liquidityFee = 13;
    _maxTxAmount = 10000000 * 10**6 * 10**9;
}
```

- Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

```
function lock(uint256 time↑) public virtual onlyOwner {
    _previousOwner = _owner;
    _owner = address(0);
    _lockTime = block.timestamp + time↑;
    emit OwnershipTransferred(_owner, address(0));
}

function unlock() public virtual {
    require(_previousOwner == msg.sender, "You don't have permission to unlock");
    require(block.timestamp > _lockTime, "Contract is locked until 7 days");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
```

- Owner can withdraw tokens.

```
function transferForeignToken(address _token↑, address _to↑) public onlyOwner returns(bool _sent↑){
    require(_token↑ != address(this), "Can't let you take all native token");
    uint256 _contractBalance = IERC20(_token↑).balanceOf(address(this));
    _sent↑ = IERC20(_token↑).transfer(_to↑, _contractBalance);
}
```

- Owner can set addresses fees.

```
ftrace | funcSig
function setAddressFee(address _address↑, bool _enable↑, uint256 _addressTaxFee↑, uint256 _addressLiquidityFee↑) external onlyOwner {
    _addressFees[_address↑].enable = _enable↑;
    _addressFees[_address↑]._taxFee = _addressTaxFee↑;
    _addressFees[_address↑]._liquidityFee = _addressLiquidityFee↑;
}

ftrace | funcSig
function setBuyAddressFee(address _address↑, bool _enable↑, uint256 _addressTaxFee↑, uint256 _addressLiquidityFee↑) external onlyOwner {
    _addressFees[_address↑].enable = _enable↑;
    _addressFees[_address↑]._buyTaxFee = _addressTaxFee↑;
    _addressFees[_address↑]._buyLiquidityFee = _addressLiquidityFee↑;
}

ftrace | funcSig
function setSellAddressFee(address _address↑, bool _enable↑, uint256 _addressTaxFee↑, uint256 _addressLiquidityFee↑) external onlyOwner {
    _addressFees[_address↑].enable = _enable↑;
    _addressFees[_address↑]._sellTaxFee = _addressTaxFee↑;
    _addressFees[_address↑]._sellLiquidityFee = _addressLiquidityFee↑;
}
```

- Owner can withdraw BNBs.

```
function Sweep() external onlyOwner {
    uint256 balance = address(this).balance;
    payable(owner()).transfer(balance);
}
```

- Owner can Uniswap router address.

```
function changeRouterVersion(address _router↑) public onlyOwner returns(address _pair↑) {
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(_router↑);

    _pair↑ = IUniswapV2Factory(_uniswapV2Router.factory()).getPair(address(this), _uniswapV2Router.WETH());
    if(_pair↑ == address(0)){
        // Pair doesn't exist
        _pair↑ = IUniswapV2Factory(_uniswapV2Router.factory())
            .createPair(address(this), _uniswapV2Router.WETH());
    }
    uniswapV2Pair = _pair↑;

    // Set the router of the contract variables
    uniswapV2Router = _uniswapV2Router;
}
```

- Owner can disable and enable auto buyback.

```
ftrace | funcSig
function setAutoBuyBackEnabled(bool _enabled↑) public onlyOwner {
    _isAutoBuyBack = _enabled↑;
    emit AutoBuyBackEnabledUpdated(_enabled↑);
}
```

- Owner can change buyBackSellLimit.

```
function setBuyBackSellLimit(uint256 buyBackSellSetLimit↑) external onlyOwner {
    buyBackSellLimit = buyBackSellSetLimit↑;
}
```

- Owner can change buy and sell fees.

```
ftrace | funcSig
function setBuyFee(uint256 buyTaxFee↑, uint256 buyLiquidityFee↑) external onlyOwner {
    _buyTaxFee = buyTaxFee↑;
    _buyLiquidityFee = buyLiquidityFee↑;
}

ftrace | funcSig
function setSellFee(uint256 sellTaxFee↑, uint256 sellLiquidityFee↑) external onlyOwner {
    _sellTaxFee = sellTaxFee↑;
    _sellLiquidityFee = sellLiquidityFee↑;
}
```

- Owner can change _intervalMinutesForSwap.

```
function SetSwapMinutes(uint256 newMinutes↑) external onlyOwner {
    _intervalMinutesForSwap = newMinutes↑ * 1 minutes;
}
```

- Owner can change buyback time interval and range rate.

```
ftrace | funcSig
function SetBuyBackTimeInterval(uint256 newMinutes↑) external onlyOwner {
    _buyBackTimeInterval = newMinutes↑ * 1 minutes;
}

ftrace | funcSig
function SetBuyBackRangeRate(uint256 newPercent↑) external onlyOwner {
    require(newPercent↑ <= 100, "The value must not be larger than 100.");
    _buyBackRangeRate = newPercent↑;
}
```

- Owner can change buyback divisor.

```
function SetBuyBackDivisor(uint256 newDivisor↑) external onlyOwner {
    _buyBackDivisor = newDivisor↑;
}
```

- Owner can include and exclude from swapAndLiquify.

```
ftrace | funcSig
function excludeFromSwapAndLiquify(address account↑) public onlyOwner {
    _isExcludedFromSwapAndLiquify[account↑] = true;
}

ftrace | funcSig
function includeInSwapAndLiquify(address account↑) public onlyOwner {
    _isExcludedFromSwapAndLiquify[account↑] = false;
}
```

- Owner can change _buyBackMaxTimeForHistories.

```
function SetBuyBackMaxTimeForHistories(uint256 newMinutes↑) external onlyOwner {
    _buyBackMaxTimeForHistories = newMinutes↑ * 1 minutes;
}
```

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope. 8% of the liquidity goes to marketing address. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details NOT provided by the team.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.



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