Cyberscope

Audit Report

Playtrk.com

June 2022

Table of Contents

Contract Review

Contract Name	PlayTRK
Compiler Version	v0.8.0+commit.c7dfd78e
Optimization	200 runs
Licence	Unlicense
Explorer	https://bscscan.com/token/0x7Da8a70b41C0372D7c6Ee6992847AEE193B386F9
Symbol	PLAYTRK
Decimals	18
Total Supply	100,000,000
Domain	playtrk.com

Source Files

Filename	SHA256
contract.sol	5b3d0619244812fb9bf53a64bd00f2491850301ec18df5972d70106cd1fe529e

Audit Updates

Initial Audit	1st June 2022
Corrected	

Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	minor
Location	contract.sol#L658

Description

The contract owner has the authority to stop transactions for all users. The owner may take advantage of it by setting the maxGas to zero and enabling the antiFR boolean.

```solidity
function _beforeTokenTransfer(
        address from,
        address to,
        uint256 amount
    ) internal override {
        if (antiFR) {
            require(tx.gasprice <= maxGas, "Cant pay that much gas price." );
        }
    }
```

Recommendation

The contract could embody a check for not allowing setting the maxGas to zero.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L82,90,283,291,315,322,334,357,379,402,422

Description

Public functions that are never called by the contract should be declared external to save gas.

```
decreaseAllowance
increaseAllowance
transferFrom
approve
transfer
balanceOf
totalSupply
symbol
name
...
```

Recommendation

Use the external attribute for functions never called from the contract.

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L616

Description

Constant state variables should be declared constant to save gas.

antiSandwichSeconds

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L625,626,627

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
setAntiFRGas
setAntiFRStatus
setAntiSandwichStatus
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L599,579,501

Description

Functions that are not used in the contract, and make the code's size bigger.

```
_burn
_beforeTokenTransfer
_afterTokenTransfer
```

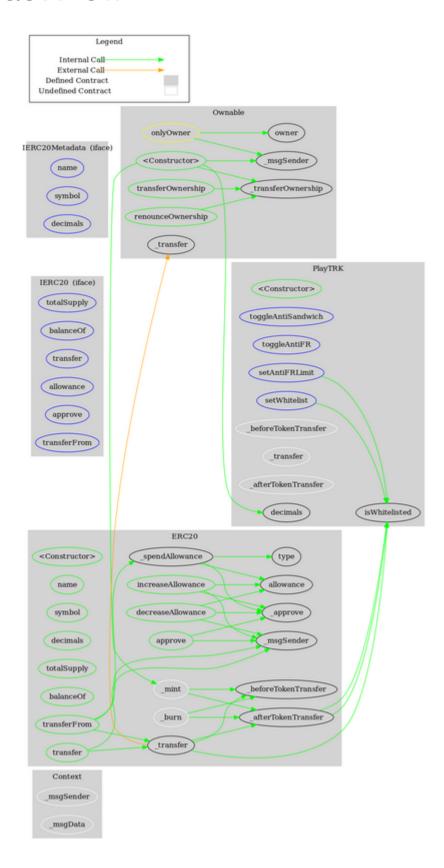## Recommendation

Remove unused functions.

Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	Implementation	Context, IERC20, IERC20Metadata		

	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
PlayTRK	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	toggleAntiSandwich	External	✓	onlyOwner
	toggleAntiFR	External	✓	onlyOwner
	setAntiFRLimit	External	✓	-
	setWhitelist	External	✓	-
	_beforeTokenTransfer	Internal	✓	
	_transfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
	isWhitelisted	Internal		

Contract Flow

Domain Info

Domain Name	playtrk.com
Registry Domain ID	2683597950_DOMAIN_COM-VRSN
Creation Date	2022-03-22T14:36:13Z
Updated Date	2022-03-22T14:36:13Z
Registry Expiry Date	2023-03-22T14:36:13Z
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	https://www.godaddy.com
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created 2 months before the creation of the audit. It will expire in 10 months.

There is no public billing information, the creator is protected by the privacy settings.

Summary

The Smart Contract analysis reported one minor severity issue. The contract owner has the authority to stop transactions. If the antiSandwich flag is enabled, the users can trade once every 15 seconds. The antiSandwich flag can be configured by the contract owner. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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The Cyberscope team

https://www.cyberscope.io