

Audit Report Redlight

January 2022

Github https://github.com/Redlight-Node-District/Token-Contract

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Contract Review

The contract audit will review the files that are included in the github repository

Github	https://github.com/Redlight-Node-District/Token-Contract
Commit	29ec7e5e6696d8abcbebd40bd0a5a6f8650740ae

The audit review is based on the following files

File	SHA256
Playmate Final.sol	d3770b23b64e614af6db5aa988754ec9d49f9daa22e f8a0506093ecbc4ed28e7

Audit Updates

Initial Audit	27th January 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

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
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L04	Conformance to Solidity Naming Conventions
•	L07	Missing Events Arithmetic



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L428,L392,L385 and 4 more

Description

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

getCirculatingSupply
setExcludedFromFees
enableTrading

• • •

Recommendation

Use the external attribute for functions never called from the contract



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L213,L216,L153 and 1 more

Description

Constant state variables should be declared constant to save gas.

```
zero
rewardsPool
_decimals
...
```

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L212,L211,L190 and 15 more

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.

```
DEAD
WAVAX
_ratios
...
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.8.9/style-guide.html#naming-conventions



L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L579,L468,L463 and 2 more

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
vBuy1 = _vBuy1
_maxWalletSize = (_tTotal * percent) / divisor
_maxTxAmount = (_tTotal * percent) / divisor
...
```

Recommendation

Emit an event for critical parameter changes.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
IERG20		External		
	totalSupply decimals	External		-
		External		-
	symbol	External		-
	name			-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	√	-
	allowance	External		-
	approve	External	√	-
	transferFrom	External	√	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
ID out ov04	Interfere			
IRouter01	Interface	Evtornal		
	factory	External		-
	WAVAX	External		-
	addLiquidityAVAX	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-



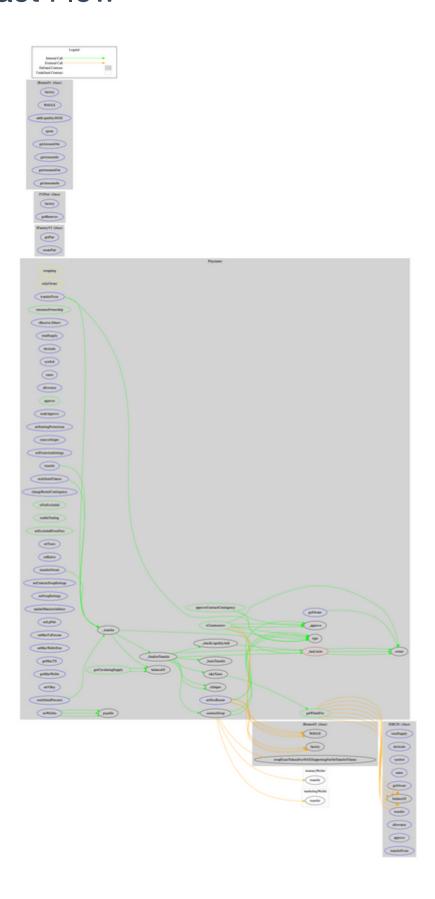
IRouter02	Interface	IRouter01		
	swapExactTokensForAVAXSupporting FeeOnTransferTokens	External	1	-
Dioumates	Implementation	IERC20		
Playmates	Implementation			
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	transferOwner	External	✓	onlyOwner
	renounceOwnership	Public	✓	onlyOwner
	<receive ether=""></receive>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	1	-
	nodeApprove	External	1	-
	_approve	Private	1	
	approveContractContingency	Public	1	onlyOwner
	setStartingProtections	External	1	onlyOwner
	isSniper	Public		-
	removeSniper	External	1	onlyOwner
	setProtectionSettings	External	1	onlyOwner
	transfer	External	1	-
	transferFrom	External	1	-
	changeRouterContingency	External	1	onlyOwner
	isFeeExcluded	Public		-
	enableTrading	Public	✓	onlyOwner
	setExcludedFromFees	Public	1	onlyOwner
	setTaxes	External	/	onlyOwner
	setRatios	External	✓	onlyOwner
	setWallets	External	1	onlyOwner
	setContractSwapSettings	External	1	onlyOwner



setSwapSettings	External	√	onlyOwner
getCirculatingSupply	Public		-
updateMansionAddress	External	✓	onlyOwner
setNewRouter	External	1	onlyOwner
setLpPair	External	✓	onlyOwner
setMaxTxPercent	External	✓	onlyOwner
setMaxWalletSize	External	✓	onlyOwner
getMaxTX	External		-
getMaxWallet	External		-
_hasLimits	Private		
_transfer	Internal	✓	
_finalizeTransfer	Internal	✓	
_basicTransfer	Internal	✓	
setVBuy	External	✓	onlyOwner
getWhaleFee	Public		-
takeTaxes	Internal	✓	
contractSwap	Internal	✓	swapping
_checkLiquidityAdd	Private	✓	
multiSendTokens	External	✓	-
multiSendPercents	External	✓	-



Contract Flow





Domain Info

Domain Name	redlight.finance
Registry Domain ID	2ea0de243d0b4adf822de9e023ba24f3-DONUTS
Creation Date	2022-01-06T15:50:10Z
Updated Date	2022-01-11T15:50:45Z
Registry Expiry Date	2023-01-06T15:50:10Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=89 90
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created 20 days before the creation of the audit. It will expire in 11 months.

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



Summary

Redlight Token District was formed as a cryptocurrency promotional/discussion group on Telegram. The smart contract analysis reported no compiler errors or critical issues. There are some functions that can be called by the owner but there are limitations to what he can change. There is no malicious function that can interrupt the users' transactions.



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Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

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