



Cyberscope

Audit Report

RaffleTicket

August 2022

SHA256 6415fb263eac97432d8ca39fdf79b38c8b25a977ca27b8591a899a7b71e709dc

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Contract Review

Contract Name	RaffleTicket
Testing Deploy	https://testnet.bscscan.com/address/0x869F7B1c9961d8eA04fCFDdc0AD556A8Af33e121
Symbol	RFT
Domain	https://battleworld.game

Source Files

Filename	SHA256
contract.sol	6415fb263eac97432d8ca39fdf79b38c8b25a977ca27b8591a899a7b71e709dc

Audit Updates

Initial Audit	4th August 2022
Corrected	

Introduction

The RaffleTicket contract implements a digital currency for the Battle World ecosystem. The contract owner can authorize or unauthorize addresses for mint and burn functionality. The contract owners have the ability to mint and burn tickets. The mintAccess authorized users can mint tickets. The burnAccess authorized users can burn tickets.

Contract Roles

Role owner:

- The contract owners can authorize burn tickets.
- The contract owners can authorize mint tickets.
- The contract owners can mint and burn tickets.

Role mintAccess :

- The authorized addresses have the ability to mint tickets.

Role burnAccess :

- The authorized addresses have the ability to burn tickets.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L26

Description

Constant state variables should be declared constant to save gas.

decimals

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality

minor

Location

contract.sol#L30,31

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.

```
BurnAccess  
MintAccess
```

Recommendation

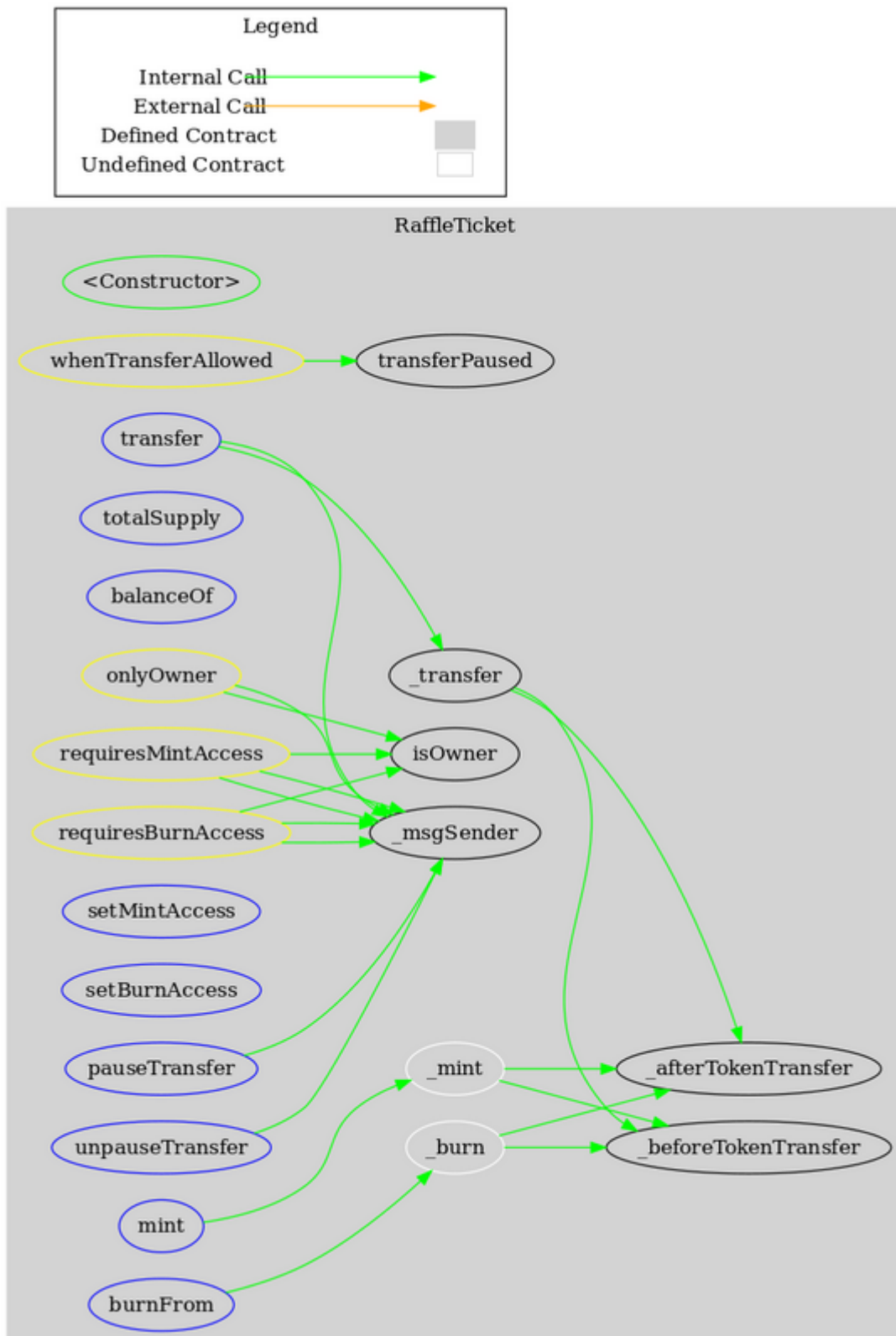
Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
RaffleTicket	Implementation			
	<Constructor>	Public	✓	-
	_msgSender	Internal		
	isOwner	Public		-
	transferPaused	Public		-
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	_transfer	Internal	✓	whenTransferAllowed
	_mint	Internal	✓	
	_burn	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
	setMintAccess	External	✓	onlyOwner
	setBurnAccess	External	✓	onlyOwner
	pauseTransfer	External	✓	onlyOwner
	unpauseTransfer	External	✓	onlyOwner
	mint	External	✓	requiresMintAccess
	burnFrom	External	✓	requiresBurnAccess

Contract Flow



Summary

The RaffleTicket contract implements a digital currency. It provides functionality to burn and mint tickets to address. The audit investigates the main features, mentions security recommendation, performance improvements and potential optimizations.

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Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>