Cyberscope

Audit Report

RaffleDistributor

August 2022

SHA256 50acaa2a55383eb1779841d1a37ef93a090ebd1602dd3ce9dc47d7f6cb39a6ea

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Contract Review

Contract Name	RaffleDistributor
Testing Deploy	https://testnet.bscscan.com/address/0x349fC037eB55B2e4b3810EC50723B79a5919fc60
Domain	https://battleworld.game

Source Files

Filename	**SHA256**
contract.sol	50acaa2a55383eb1779841d1a37ef93a090ebd1602dd3ce9dc47d7f6cb39a6ea

Audit Updates

Initial Audit	4th August 2022
Corrected	

Introduction

The RaffleDistributor contract implements a ticket purchase mechanism. The buyer provides the quantity of tickets and value of the tickets in order to receive tickets. The tickets are native tokens that are minted to the buyer’s address.

The ticket price, ticket address, the vault address and maximum amount of tickets per user is defined once during the contract deployment.

The contract owners have the ability to pause the purchase mechanism.

Contract Roles

Role owner:

- The contract owners can pause the purchase mechanism.

Contract Diagnostics

Critical Medium Minor

Severity	Code	Description
	L04	Conformance to Solidity Naming Conventions

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L35,32,36,33

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.

```
VAULT
MAX_RAFFLE_PER_USER
RAFFLE_TICKET_ADDRESS
RAFFLE_TICKET_PRICE
```

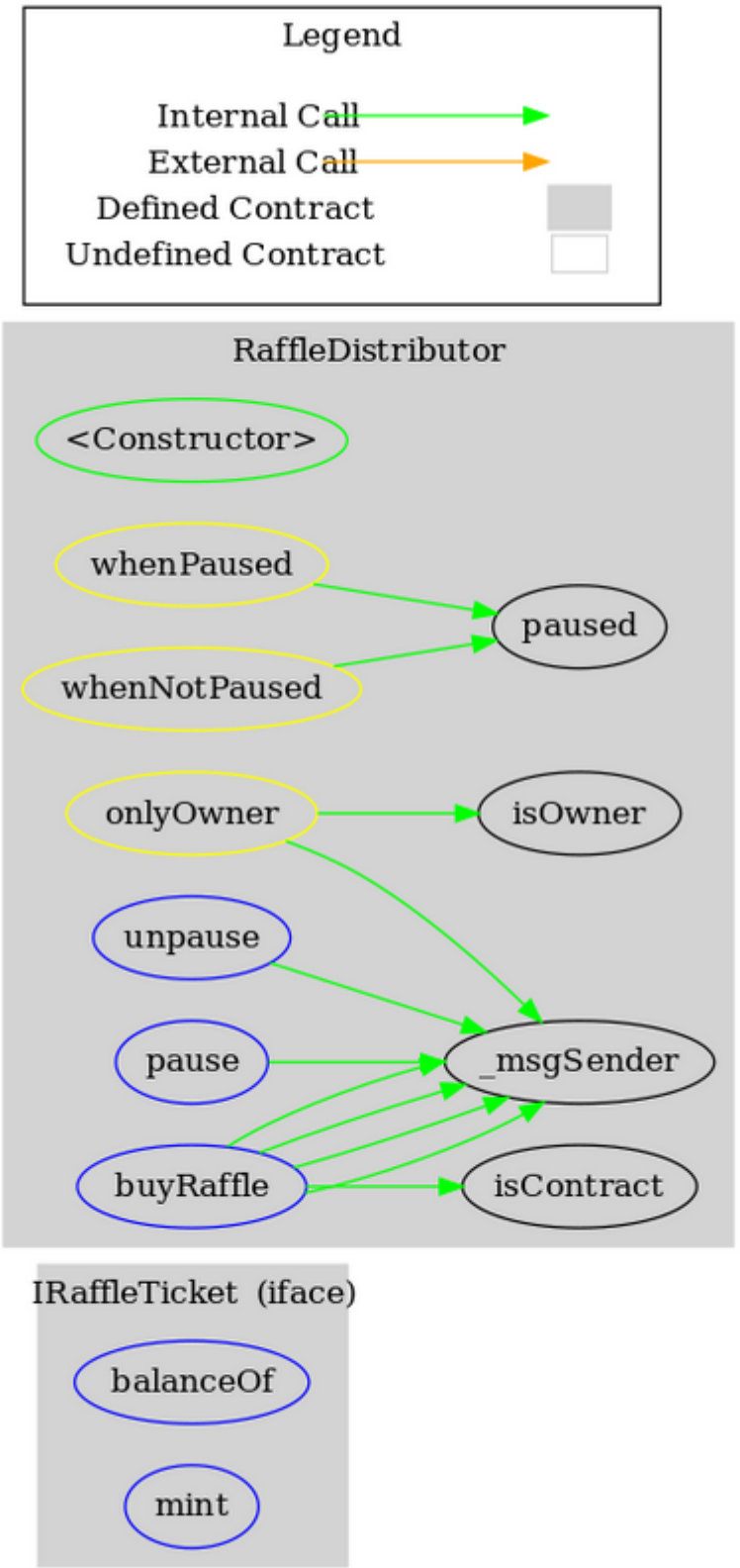
Recommendation

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**
IRaffleTicket	Interface			
	balanceOf	External		-
	mint	External	✓	-
RaffleDistributor	Implementation			
	<Constructor>	Public	✓	-
	_msgSender	Internal		
	isOwner	Public		-
	paused	Public		-
	pause	External	✓	onlyOwner
	unpause	External	✓	onlyOwner
	isContract	Internal		
	buyRaffle	External	Payable	whenNotPaused

Contract Flow



Summary

The RaffleDistributor contract implements a ticket mechanism. It provides functionality to buy tickets. The audit investigates the main features, mentions security recommendation, performance improvements and potential optimizations.

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The Cyberscope team

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