Cyberscope

Audit Report
Vault

August 2022

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Contract Review

Contract Name	Vault
Testing Deploy	https://testnet.bscscan.com/address/0xd1c8d2cf5AE112d633174bc73F4Ad7E55414B769
Domain	https://battleworld.game

Source Files

Filename	SHA256
contract.sol	7470f1b9e918c1d4cbc18846b94537bbf1629b6310c242b7db99e5be1b86fad7

Audit Updates

Initial Audit	4th August 2022
Corrected	

Introduction

The Vault contract implements a vault safer functionality for native tokens. The contract owner controls the access to the contract functionality, by authorize or unauthorize addresses to transfer balance from the Vault. The contract owners have the ability to stop the withdrawal operation for all the authorized addresses. The contract owners have the ability to withdraw all the funds of the vault. The authorized addresses have the ability to transfer all the funds to any address. There is no transfer limit for both owners and authorized addresses.

Contract Roles

Role owner:

- The contract owners can authorize withdrawal addresses.
- The contract owners can pause the withdrawals.
- The contract owners can withdraw.

Role authorized :

- The authorized users can withdraw.

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#L150

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.

OwnerWithdraw

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
Vault	Implementation			
	<Constructor>	Public	✓	-
	_msgSender	Internal		
	isOwner	Public		-
	paused	Public		-
	pause	External	✓	onlyOwner
	unpause	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	<Fallback>	External	Payable	-
	getBalance	Public		-
	authorizeSpender	External	✓	onlyOwner
	OwnerWithdraw	External	✓	onlyOwner
	transferFromVault	External	✓	whenNotPaused requiresAuthorization

Contract Flow
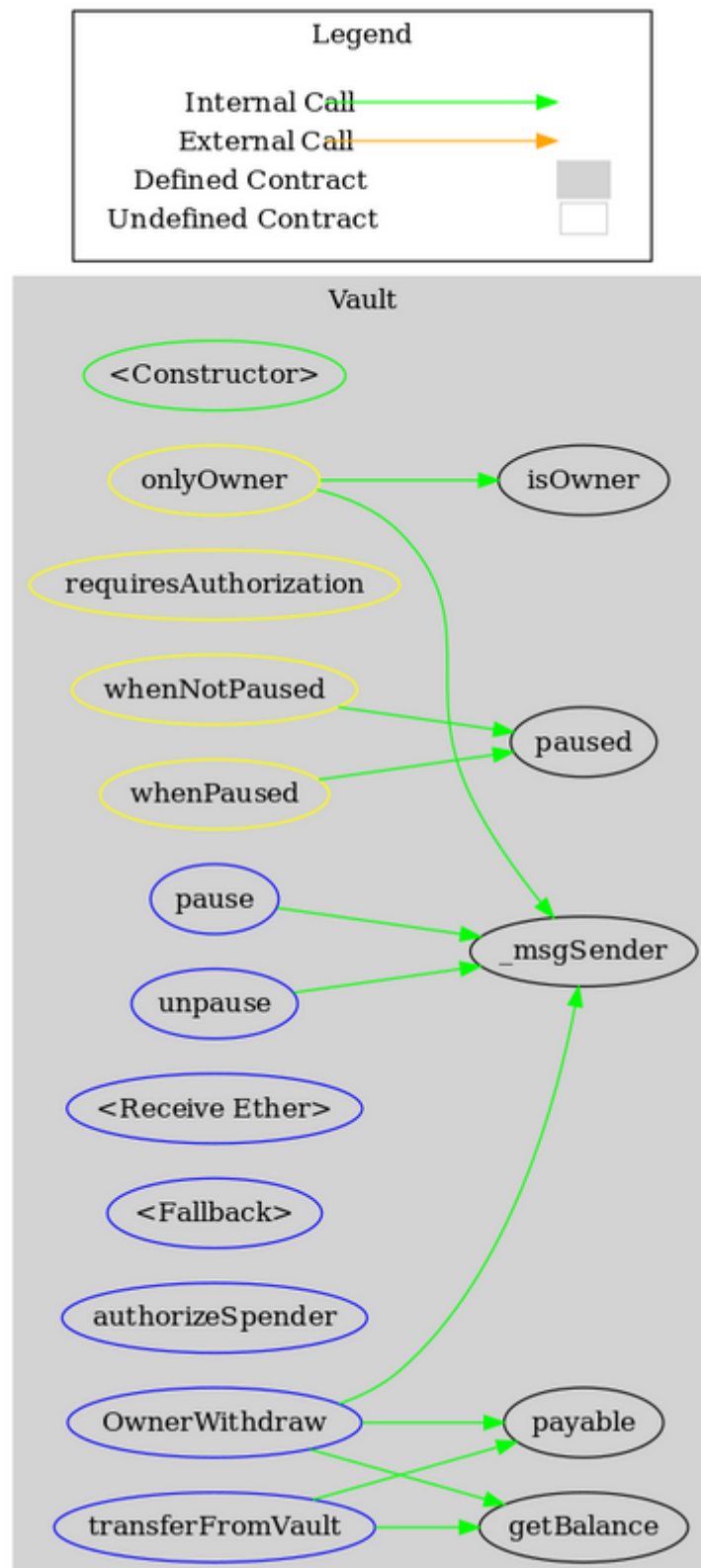
Summary

The Vault contract implements a vault. It provides functionality to withdraw and transfer funds. The audit investigates the main features, mentions security recommendation, performance improvements and potential optimizations.

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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

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