AUDIT REPORT

DATE APRIL 7TH

FOR

ORAKURU

Solid Group Auditing Service
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Overview

Network: Binance Smart Chain
Website: https://orakuru.io
Twitter Group: https://t.me/Orakuru_ork
Telegram Group: https://t.me/Orakuru

Description

Orakuru is Binance Smart Chain’s community owned and operated Oracle.

Files In Scope

Contract Name	MD5
Orakuru.sol	b3a2e71a71f044275ef27bcca4796a87
TokenVesting.sol	7D20EAD3CC91976C1A4E4F3C0455EFD3

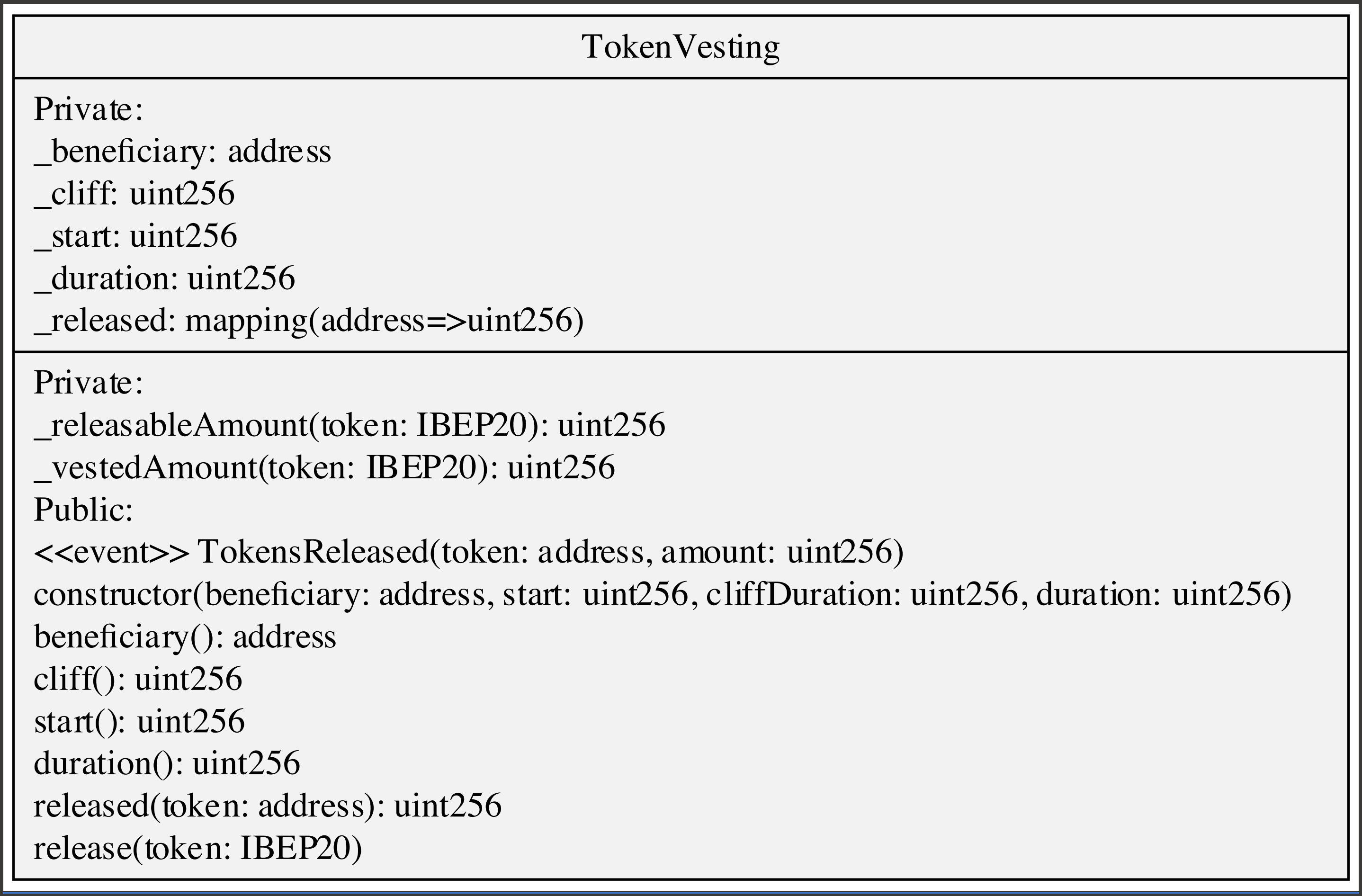
Vulnerability Summary

● Informational severity Issues	1
● Low severity issues	0
● Medium severity issues	0
● High severity issues	0

Total Issues
Informational
100%
🟩 Informational
🟨 Low
🟧 Medium
🟥 High

UML

TokenVesting.sol

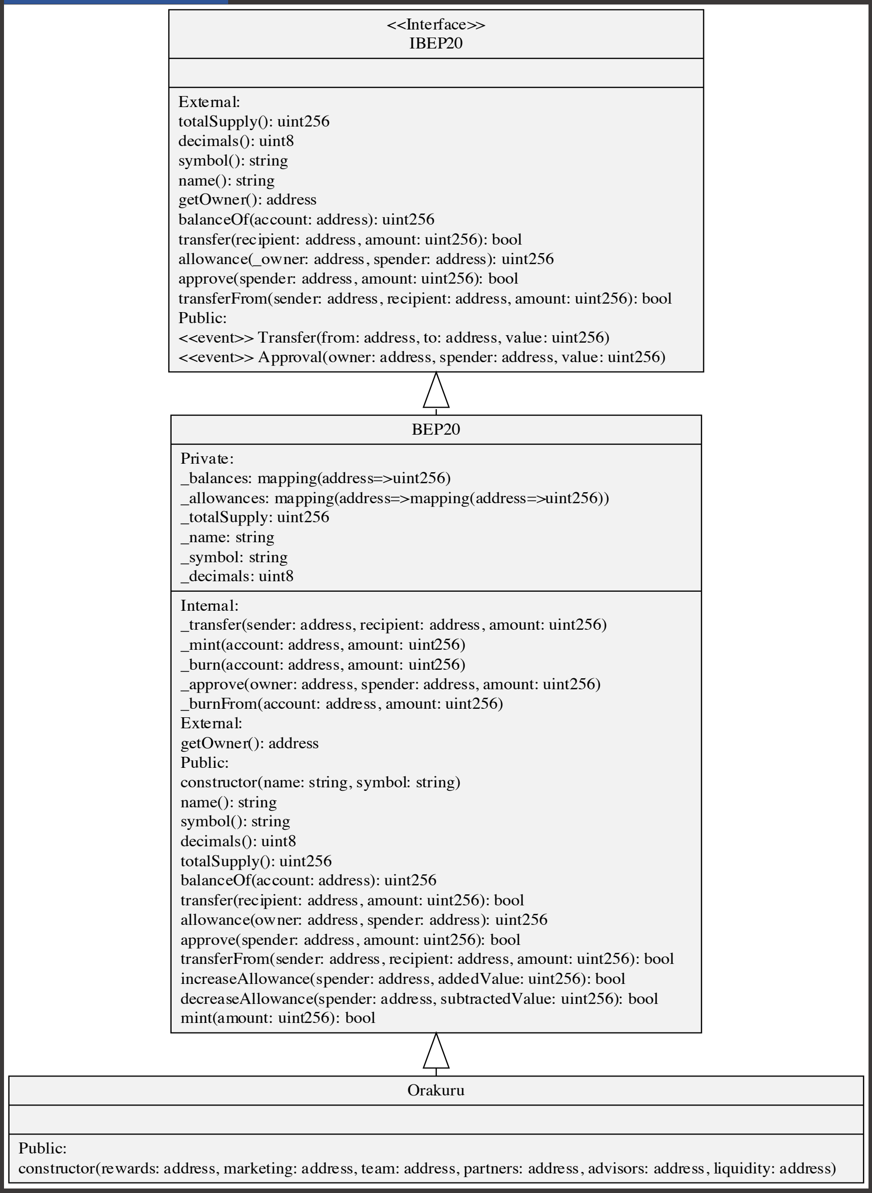


TokenVesting

Private:
_beneficiary: address
_cliff: uint256
_start: uint256
_duration: uint256
_released: mapping(address=>uint256)

Private:
_releasableAmount(token: IBEP20): uint256
_vestedAmount(token: IBEP20): uint256
Public:
<<event>> TokensReleased(token: address, amount: uint256)
constructor(beneficiary: address, start: uint256, cliffDuration: uint256, duration: uint256)
beneficiary(): address
cliff(): uint256
start(): uint256
duration(): uint256
released(token: address): uint256
release(token: IBEP20)

Orakuru.sol


<<Interface>>
IBEP20
External:
totalSupply(): uint256
decimals(): uint8
symbol(): string
name(): string
getOwner(): address
balanceOf(account: address): uint256
transfer(recipient: address, amount: uint256): bool
allowance(_owner: address, spender: address): uint256
approve(spender: address, amount: uint256): bool
transferFrom(sender: address, recipient: address, amount: uint256): bool
Public:
<<event>> Transfer(from: address, to: address, value: uint256)
<<event>> Approval(owner: address, spender: address, value: uint256)
BEP20
Private:
_balances: mapping(address=>uint256)
_allowances: mapping(address=>mapping(address=>uint256))
_totalSupply: uint256
_name: string
_symbol: string
_decimals: uint8
Internal:
_transfer(sender: address, recipient: address, amount: uint256)
_mint(account: address, amount: uint256)
_burn(account: address, amount: uint256)
_approve(owner: address, spender: address, amount: uint256)
_burnFrom(account: address, amount: uint256)
External:
getOwner(): address
Public:
constructor(name: string, symbol: string)
name(): string
symbol(): string
decimals(): uint8
totalSupply(): uint256
balanceOf(account: address): uint256
transfer(recipient: address, amount: uint256): bool
allowance(owner: address, spender: address): uint256
approve(spender: address, amount: uint256): bool
transferFrom(sender: address, recipient: address, amount: uint256): bool
increaseAllowance(spender: address, addedValue: uint256): bool
decreaseAllowance(spender: address, subtractedValue: uint256): bool
mint(amount: uint256): bool
Orakuru
Public:
constructor(rewards: address, marketing: address, team: address, partners: address, advisors: address, liquidity: address)

BEP-20’s Conformance

This test checks for BEP-20’s conformance.

- All the functions are present
- All the events are present
- Functions return the correct type
- Functions that must be view are view
- Events' parameters are correctly indexed
- The functions emit the events
- Derived contracts do not break the conformance

Function	present	type	Correct Return value	events	
totalSupply	✅	✅ view	✅		
balanceOf(address)	✅	✅ view	✅		
transfer(address,uint256)	✅	✅ external	✅	✅ Transfer	
transferFrom(address, address, uint256)	✅	✅ external	✅	✅ Transfer	
approve(address,uint256)	✅	✅ external	✅	✅ Approval	
allowance(address, address)	✅	✅ view	✅		
name	✅	✅ view	✅		
symbol	✅	✅ view	✅		

Check Events:

✅ Transfer

✅ Approve

The contract that was tested is the token’s contract: Orakuru.sol

Findings

Orakuru.sol

Description – The official token contract.

Summary

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● Informational severity Issues	0
● Low severity issues	0
● Medium severity issues	0
● High severity issues	0

TokenVesting.sol

Description – A token holder contract that can release its token balance gradually (vesting period).

Issue #1:

Type	Severity	Location
Gas Optimization	● Informational	TokenVesting.sol

Description:

The public **`beneficiary`**, **`cliff`**, **`start`**, **`duration`** , **`released`** **,** and **`release`** functions should be declared as external.

Recommendation:

These functions are only called from outside of the contract, consider using the external attribute instead of public to save gas.

Summary

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● High severity issues	0