

# Smart Contract Audit

**FOR** 

# Origen Defi

**DATED: 17 MAR 23'** 



## **AUDIT SUMMARY**

Project name - Origen Defi

**Date: 17** March, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status: Passed** 

### **Issues Found**

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



## **USED TOOLS**

### Tools:

#### 1- Manual Review:

a line by line code review has been performed by audit ace team.

#### 2- BSC Testnet network:

all tests were done on Bsc Testnet network, each test has its transaction has attached to it.

### 3- Slither: Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/address/0xd6bAE20da67665Fc51849168F69C8BE3f3d1758c#code



## **Token Information**

Token Name: Origen Defi

Token Symbol: ORIGEN

Decimals: 18

Token Supply: 50,000,000

### **Token Address:**

0x20dd734594DAdc69DF313CD143B34a70a3D9214E

#### Checksum:

c8d108a655abb372341f477ba9f044e219f2b281

#### Owner:

0xfD581d514e28Cb50FbF7B8BB4C0Df8601AC20B2C



## **TOKEN OVERVIEW**

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilige: None

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: None



## **AUDIT METHODOLOGY**

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



## **VULNERABILITY CHECKLIST**





## **CLASSIFICATION OF RISK**

### Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

### **Description**

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

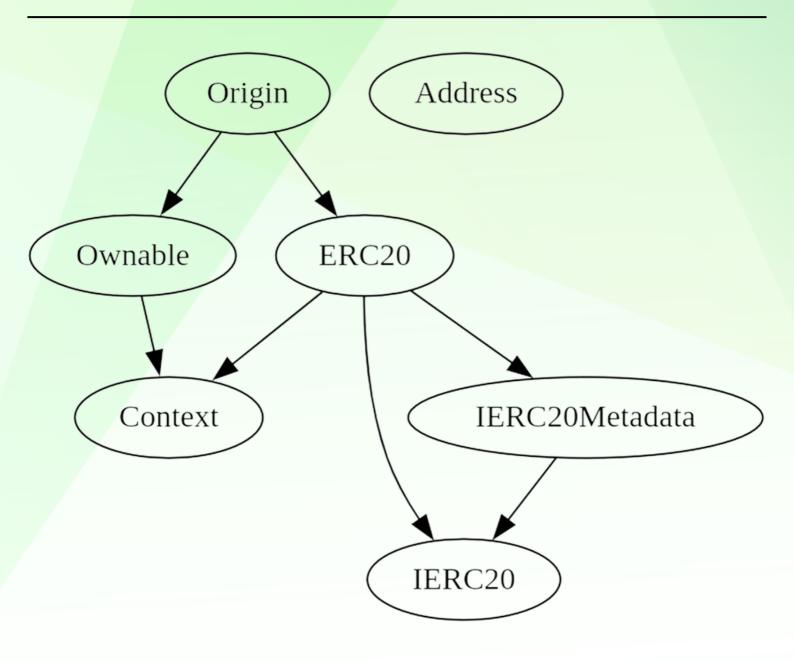
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	0



## **INHERITANCE TREE**





## **POINTS TO NOTE**

- Owner is not able to set buy/sell/transfer fees (0% static)
- Owner must enable trading for investors in order for them to be able to trade
- Owner is not able to set max buy/sell/transfer/hold amount
- · Owner is not able to blacklist an arbitrary wallet
- · Owner is not able to disable trades
- Owner is not able to mint new tokens



### Trades will not be enabled right away

Owner of the contract must call "enableTrading" function in order to enable buys, sells and transfers for non-authorized wallets. Since contract is developed and owned by pinksale's safu dev its guaranteed that trades will be enabled.



## **TOKEN DISTRIBUTION**

It should be noted that the owner currently holds 100% of the total supply. However, information about the distribution of these tokens is not available, and it is recommended that investors exercise caution when considering this aspect.



### **CONTRACT ASSESMENT**

```
| Contract |
                Type
                             Bases
| ;-----:| ;-----:| ;-----:|
       | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | | | |
| | msgData | Internal 🦰 | | |
\Pi\Pi\Pi\Pi
| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
111111
| **IERC20Metadata** | Interface | IERC20 | | | | |
| L | name | External | | NO | |
| L | symbol | External | | | NO | |
| L | decimals | External | | NO | |
111111
| **Ownable** | Implementation | Context | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | owner | Public | | NO |
| L | renounceOwnership | Public | | | | onlyOwner |
\Pi\Pi\Pi\Pi\Pi
| **Address** | Library | | | | | | |
| L | sendValue | Internal 🦰 | 🛑 | |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | name | Public | | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | | NO | |
| L | transferFrom | Public | | 🛑 | NO | |
| L | increaseAllowance | Public | | | NO | |
```



### **CONTRACT ASSESMENT**

```
| L | decreaseAllowance | Public | | ( ) | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | _mint | Internal 🖺 | 🛑 | |
| L | _burn | Internal 🦰 | 🛑 | |
| L | _approve | Internal 🦲 | 🧓 | |
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
111111
**Origin** | Implementation | ERC20, Ownable | | |
| L | <Constructor> | Public | | | | ERC20 |
📙 | claimStuckTokens | External 🌡 | 🔴 | onlyOwner |
📘 🗀 excludeFromFees | External 📗 | 🛑 | onlyOwner |
| L | isExcludedFromFees | Public | | NO | | |
| L | enableTrading | External | | | | onlyOwner |
| L | _transfer | Internal 🦰 | 🛑 | |
Legend
| Symbol | Meaning |
|:-----|
  | Function can modify state |
   | Function is payable |
```



### STATIC ANALYSIS

C20. burn(address,uint256) (contracts/Token.sol#274-289) is never used and should be removed

Pragma version^0.8.17 (contracts/Token.sol#23) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16 solc-0.8.19 is not recommended for deployment Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/Token.sol#114-125):
- (success) = recipient.call{value: amount}() (contracts/Token.sol#120)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

dedundant expression "this (contracts/Token.sol#31)" inContext (contracts/Token.sol#25-34) deference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Result => A static analysis of contract's source code has been performed using slither,

No issues found



## **FUNCTIONAL TESTING**

#### Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

### 1- Adding Liquidity (Passed):

liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x45ae81d7f9668de91bc3b319dbfab31140ce987e283a372c108cbeb42dbf3bf5

#### 2- Buying when trading not enabled (owner%)(Passed):

https://testnet.bscscan.com/tx/0x586627fae56ae38edf27bb9ac2f 82d0a4c3764705a4383293ce0baa7bbe50679

#### 3- Selling when trading not enabled (0%)(Passed):

https://testnet.bscscan.com/tx/0xd4d8835100d8bf50fb63e06784 39c37c39cf29b3f6aca3d26e11498962978ff8

#### 4- Transferring when trading not enabled (0% tax) (passed):

https://testnet.bscscan.com/tx/0x267bf5498818bf6467fd1a1cd37f1c334d81de726539e0bf403c1ce3b6115a14

### 5- Buying when trading enabled (0% tax) (passed):

https://testnet.bscscan.com/tx/0xd04c07aabbdd0f8823cc769630 30c80eaa28385e68bdad83a560e6580e8781ea



## **FUNCTIONAL TESTING**

#### 6- Selling when trading enabled (0% tax) (passed):

https://testnet.bscscan.com/tx/0x3de3e37267a89928d66de66b6 84b9848d596989b3adc5d27d8a0cb258ca41587cd

7- Transferring when trading enabled (0% tax) (passed):

https://testnet.bscscan.com/tx/0xdc8f108de92e3e7b2149ea77207 dc5c89b54165cbf703a6edf7eaa679b69c3d4



## **MANUAL TESTING**

## No Issues Found



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