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Prepared for: Evenst

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THIS AUDIT REPORT WILL CONTAIN CONFIDENTIAL INFORMATION ABOUT THE SMART CONTRACT AND INTELLECTUAL PROPERTY OF THE CUSTOMER AS WELL AS INFORMATION ABOUT POTENTIAL VULNERABILITIES OF THEIR EXPLOITATION.

THE INFORMATION FROM THIS AUDIT REPORT CAN BE USED INTERNALLY BY THE CUSTOMER OR IT CAN BE DISCLOSED PUBLICLY AFTER ALL VULNERABILITIES ARE FIXED - UPON THE DECISION OF THE CUSTOMER.

1. Disclaimer

The smart contracts given for audit have been analyzed in accordance with the best industry practices at the date of this report, in relation to cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report, (Source Code); the Source Code compilation, deployment, and functionality (performing the intended functions). Because the total numbers of test cases are unlimited, the audit makes no statements or warranties on the security of the code.

It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only - we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts.

Smart contracts are deployed and executed on a blockchain platform. The platform, its programming language, and other software related to the smart contract can have their own vulnerabilities that can lead to hacks. Thus, the audit can't guarantee explicit security of the audited smart contracts.

2. Introduction

Kishan Patel (Consultant) was contacted by Events. (Customer) to conduct a Smart Contracts Code Review and Security Analysis. This report presents the findings of the security assessment of Customer's smart contracts and its code review conducted between 07/03/2024 - 09/03/2024.

The project has 1 file. It contains approx 700 lines of Solidity code. All the functions and state variables are well commented on using the natspec documentation, but that does not create any vulnerability.

3. Project information

Token Name	RMC Token
Token Symbol	RMCT
Platform	Polygon
Order Started Date	07/03/2024
Order Completed Date	09/03/2024

4. List of attacks checked

- Over and under flows
- Short address attack
- Visibility & Delegate call
- Reentrancy / TheDAO hack
- Forcing BNB to a contract
- Timestamp Dependence
- Gas Limit and Loops
- DoS with (Unexpected) Throw
- DoS with Block Gas Limit
- Transaction-Ordering Dependence
- Byte array vulnerabilities
- Style guide violation
- Transfer forwards all gas
- ERC20 API violation
- Malicious libraries
- Compiler version not fixed
- Unchecked external call Unchecked math
- Unsafe type inference

5. Severity Definitions

Risk	Level Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc.
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution

6. Good things in code

Good required condition in functions:-

o Here smart contract is checking that newOwner address is valid and proper.

 Here smart contract is checking that from and to addresses are valid and proper.

```
function _transfer(address from, address to, uint256 value) internal

if (from == address(0)) {
    revert ERC20InvalidSender(address(0));
}

if (to == address(0)) {
    revert ERC20InvalidReceiver(address(0));
}

460
    revert ERC20InvalidReceiver(address(0));
}

401
}

LEACLE ERCX0INAG(TIGNECEIAGL(SIGNESS(0)));
```

o Here smart contract is checking that account address is valid and proper.

```
510
           function _mint(address account, uint256 value) internal {
511
               if (account == address(0)) {
                   revert ERC20InvalidReceiver(address(0));
512
513
               _update(address(0), account, value);
514
557
558
           function _burn(address account, uint256 value) internal {
               if (account == address(0)) {
560
                   revert ERC20InvalidSender(address(0));
561
562
              _update(account, address(0), value);
```

• Here smart contract is checking that owner and spender addresses are valid and proper.

```
function _approve(address owner, address spender, uint256 value, bod
if (owner == address(0)) {
    revert ERC20InvalidApprover(address(0));
}

if (spender == address(0)) {
    revert ERC20InvalidSpender(address(0));
}

214
```

 Here smart contract is checking that transfer to owner is successfully done or not.

```
/// @param amount: amount to claim
639
           function claimStuckedERC20(address token, uint256 amount) external o
640
641
                (bool success, bytes memory data) = token.call(
642
                   abi.encodeWithSelector(0xa9059cbb, owner(), amount)
643
               );
644
                   success && (data.length == 0 || abi.decode(data, (bool))),
645
                   "ERC20: TOKEN_CLAIM_FAILED"
646
647
```

Here smart contract is checking that msg.sender is minter or not, totalSupply
 + amount is not bigger than MAX SUPPLY.

```
652
    /// @param amount: amount to mint
653
    function mint (address to, uint256 amount) external {
654
    if(!isMinter[msg.sender]){revert OnlyAuthorizedMinterCanCallThis
655
     if(totalSupply() + amount > MAX_SUPPLY){revert MaxSupplyExceeded
656
    _mint(to, amount);
657
}
```

• Here smart contract is checking that from or to addresses is not frozen.

```
/// override required by solidity
function _update (address from, address to, uint256 amount) internal
if(isFrozen[from] || isFrozen[to]){revert UserTokensAreFrozen();
super._update(from, to, amount);
}
```

7. Critical vulnerabilities in code

• No Critical vulnerabilities found

8. Medium vulnerabilities in code

No Medium vulnerabilities found

9. Low vulnerabilities in code

9.1. Suggestions to add code validations:-

- => You have implemented required validation in contract.
- => There are some place where you can improve validation and security of your code.
- => These are all just suggestion it is not bug.

o Function: - burn

• Here in _burn function smart contract can check that account address has sufficient balance to burn.

```
o Function: - approve
```

```
function _approve(address owner, address spender, uint256 value, boo

if (owner == address(0)) {

revert ERC20InvalidApprover(address(0));

}

if (spender == address(0)) {

revert ERC20InvalidSpender(address(0));

}

revert ERC20InvalidSpender(address(0));

}
```

• Here in _approve function smart contract can check that owner account has sufficient balance to give allowance to spender address.

10. Summary

• Number of problems in the smart contract as per severity level

Critical	Medium	Low
0	0	2

According to the assessment, the smart contract code is well secured. The code is written with all validation and all security is implemented. Code is performing well and there is no way to steal funds from this contract.

- Good Point: Code performance and quality are good. All kind of necessary validation added into smart contract and all validations are working as excepted.
- Suggestions: Please try to implement suggested code validations.