Blockchain Contract Audit

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Project: RedPepe Token

Report date: May 5th, 2023

Summary	p.03
Vulnerabilities list	p.05
Overview	
<u>Vulnerability Classification</u>	p.06
<u>Findings List</u>	p.07
Findings	p.08
Conclusion	p.09
Category Annotation	p.10
Disclaimer	p.13

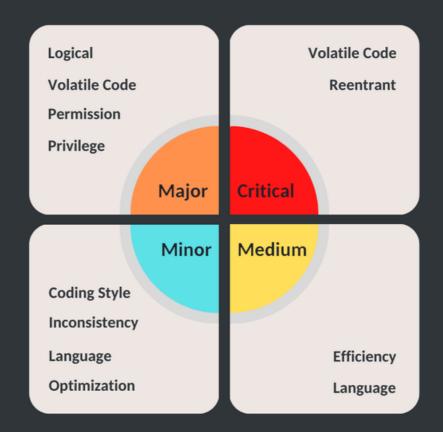
Project name	RedPepe Token
Network	BSC
Language	Solidity
Delivery Date	2023/5
Contract Address	0xc9edaa7c41440f5446413b68983e6c0ac7af3cee

This audit report was summarised the smart contract verification service requested by RedPepe team. The goal of this security audit is to guarantee that the smart contracts are perfect enough to avoid potential security vulnerability.

	Token Information
Fee	None
Fee Privilege	None
Ownership	None
Max Tx Amount	None
Blacklist	None
Decimals	18
Max Supply	Ten Billions
Mint/Burn	None

Re-entrancy
Overflow/underflow
Use of block.timestamp
Use of tx.origin
Use of selfdestruct
Storage conflict
Force receive token
Uncheck transaction
Using inline assembly
Access vulnerability
Return value of low level call
Return value of transfer

Vulnerability Classification



Critical

The code will cause the smart contract to crash, or coding wrong.

Major

The code has the vulnerability of the smart contract, and would cause the security issue.

Medium

The code does not have any vulnerabilies but may have out of gas issue.

Minor

The code does not have any vulnerabilies, but it could have a better coding style and optimization.

Findings List





ID	Severity	Category	Title
01	Minor	Optimization	<u>Hard Coded Decimals</u>

Hard Coded Decimals

ID	Severity	Category	Location
01	Minor	Optimization	RedPepe_Token.sol : 273

Description

To lower gas costs, consider hardcoding the decimals instead of calling the decimals() function.

Conclusion

This is an implementation of the ERC20 token standard that has been audited and found to have no vulnerabilities. The total token supply for this contract is ten billions, which is acquired by the deployer and distributed as deemed appropriate. Additionally, it is not possible to mint any more tokens.

Audit Status: PASS







Category Annotation

Logical

A logic error causes incorrect operation but not to terminate abnormally or crash. A logic error produces an unintended output or other behavior, although it may not immediately be recognized as such.

Permission

In a smart contract, if there is an admin to control specific <u>functions that should not be accessed by a normal account.</u>

Privilege

A fair smart contract should not have too much authority, for instance, the contract owner can easily change who the NFT holder is.

Language

This category problem is focused on solidity syntax.

Coding Style

A set of rules are used in the source code for a computer program. It is often claimed that following a particular coding style will help programmers read and understand source code conforming to the style, and help to avoid introducing errors.

Optimization

Generally, there are a lot of ways to achieve your goal when you are programming, but the time and space complexity is different in varied methods.

Reentrant

This is a well-known critical vulnerability that hackers can repeatedly call a function in one transaction to attack a contract.

Efficiency

This problem represents the functional efficiency is too low which may cause out of gas in Ethereum.

Inconsistency

If you do something a certain way, do all similar things in the same way. Simple consistency can make code much easier to read and modify.

Volatile Code

There is an important variable that has been covered by accident. In solidity, it generally occurs in using assembly.

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