Cyberscope

# Audit Report

# Me Paul

May 2023

Network ETH

Address 0x4F1350CD63211515FAb6416d4743c7b99b1Bd1ac

Audited by © cyberscope

# Table of Contents

# Review

| | |
|---|---|
| **Contract Name** | MePaul |
| **Compiler Version** | v0.8.9+commit.e5eed63a |
| **Optimization** | 800 runs |
| **Explorer** | https://etherscan.io/address/0x4f1350cd63211515fab6416d4743c7b99b1bd1ac |
| **Address** | 0x4f1350cd63211515fab6416d4743c7b99b1bd1ac |
| **Network** | ETH |
| **Symbol** | PAUL |
| **Decimals** | 18 |
| **Total Supply** | 1,000,000,000 |

## Audit Updates

| | |
|---|---|
| **Initial Audit** | 19 May 2023 |

## Source Files

| Filename | SHA256 |
| --- | --- |
| **@openzeppelin/contracts/token/ERC20/ERC20.sol** | bce14c3fd3b1a668529e375f6b70ffdf9cef8c4e410ae99608be5964d98fa701 |
| **@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol** | af5c8a77965cc82c33b7ff844deb9826166689e55dc037a7f2f790d057811990 |
| **@openzeppelin/contracts/token/ERC20/IERC20.sol** | 94f23e4af51a18c2269b355b8c7cf4db8003d075c9c541019eb8dcf4122864d5 |
| **@openzeppelin/contracts/utils/Context.sol** | 1458c260d010a08e4c20a4a517882259a23a4baa0b5bd9add9fb6d6a1549814a |
| **contracts/MePaul.sol** | 9b14f4e317e24678c28cd56ee5b55e0ef7cb5ed18cb44d3fbe8b99fc7b4d236c |

# Findings Breakdown


| | |
|---|---|
| Critical | 0 |
| Medium | 0 |
| Minor / Informative | 1 |

| Severity | Unresolved | Acknowledged | Resolved | Other |
|---|---|---|---|---|
| Critical | 0 | 0 | 0 | 0 |
| Medium | 0 | 0 | 0 | 0 |
| Minor / Informative | 1 | 0 | 0 | 0 |

# Analysis

Critical Medium Minor / Informative Pass

| Severity | Code | Description | Status |
|---|---|---|---|
| ● | ST | Stops Transactions | Passed |
| ● | OCTD | Transfers Contract's Tokens | Passed |
| ● | OTUT | Transfers User's Tokens | Passed |
| ● | ELFM | Exceeds Fees Limit | Passed |
| ● | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ● | MT | Mints Tokens | Passed |
| ● | BT | Burns Tokens | Passed |
| ● | BC | Blacklists Addresses | Passed |

# Diagnostics

Critical Medium Minor / Informative

| Severity | Code | Description | Status |
|---|---|---|---|
| | L19 | Stable Compiler Version | Unresolved |

## L19 - Stable Compiler Version

| | |
|---|---|
| **Criticality** | Minor / Informative |
| **Location** | contracts/MePaul.sol#L14 |
| **Status** | Unresolved |

### Description

The `^` symbol indicates that any version of Solidity that is compatible with the specified version (i.e., any version that is a higher minor or patch version) can be used to compile the contract. The version lock is a mechanism that allows the author to specify a minimum version of the Solidity compiler that must be used to compile the contract code. This is useful because it ensures that the contract will be compiled using a version of the compiler that is known to be compatible with the code.

```
pragma solidity ^0.8.9;
```

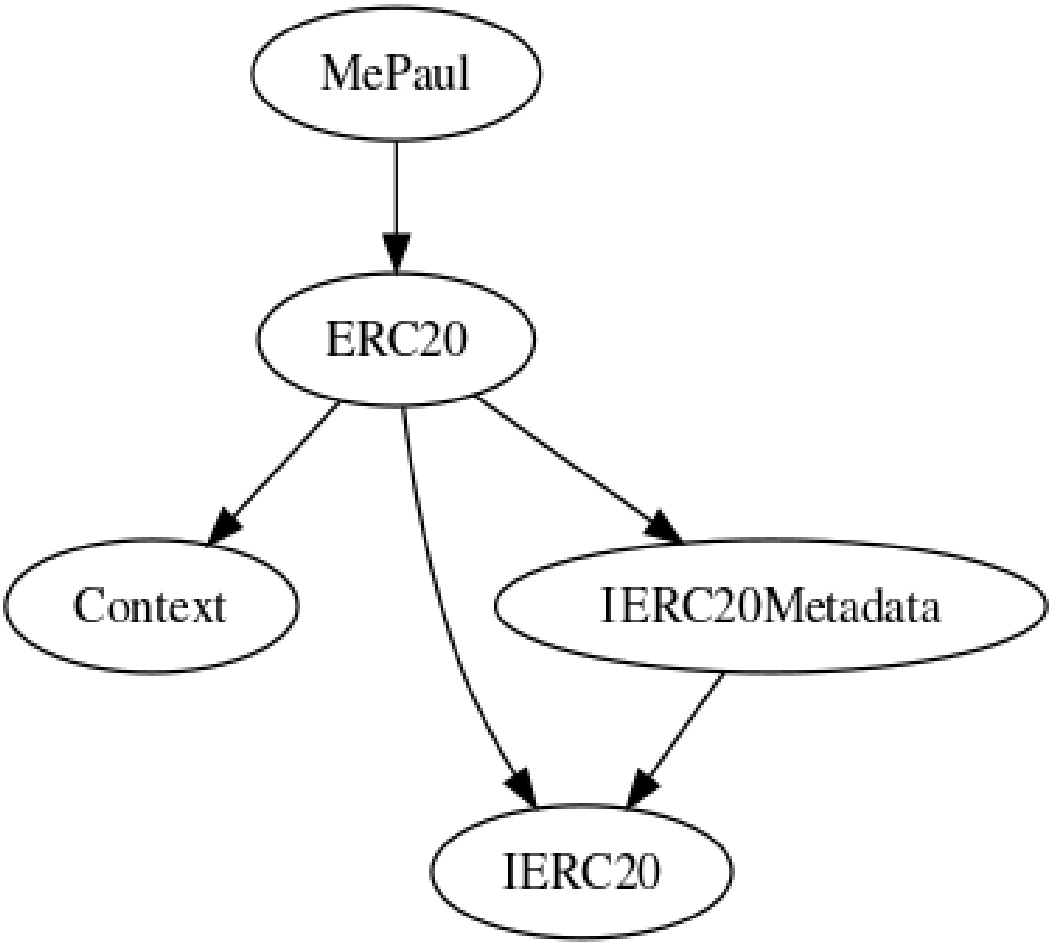
### Recommendation

The team is advised to lock the pragma to ensure the stability of the codebase. The locked pragma version ensures that the contract will not be deployed with an unexpected version. An unexpected version may produce vulnerabilities and undiscovered bugs. The compiler should be configured to the lowest version that provides all the required functionality for the codebase. As a result, the project will be compiled in a well-tested LTS (Long Term Support) environment.

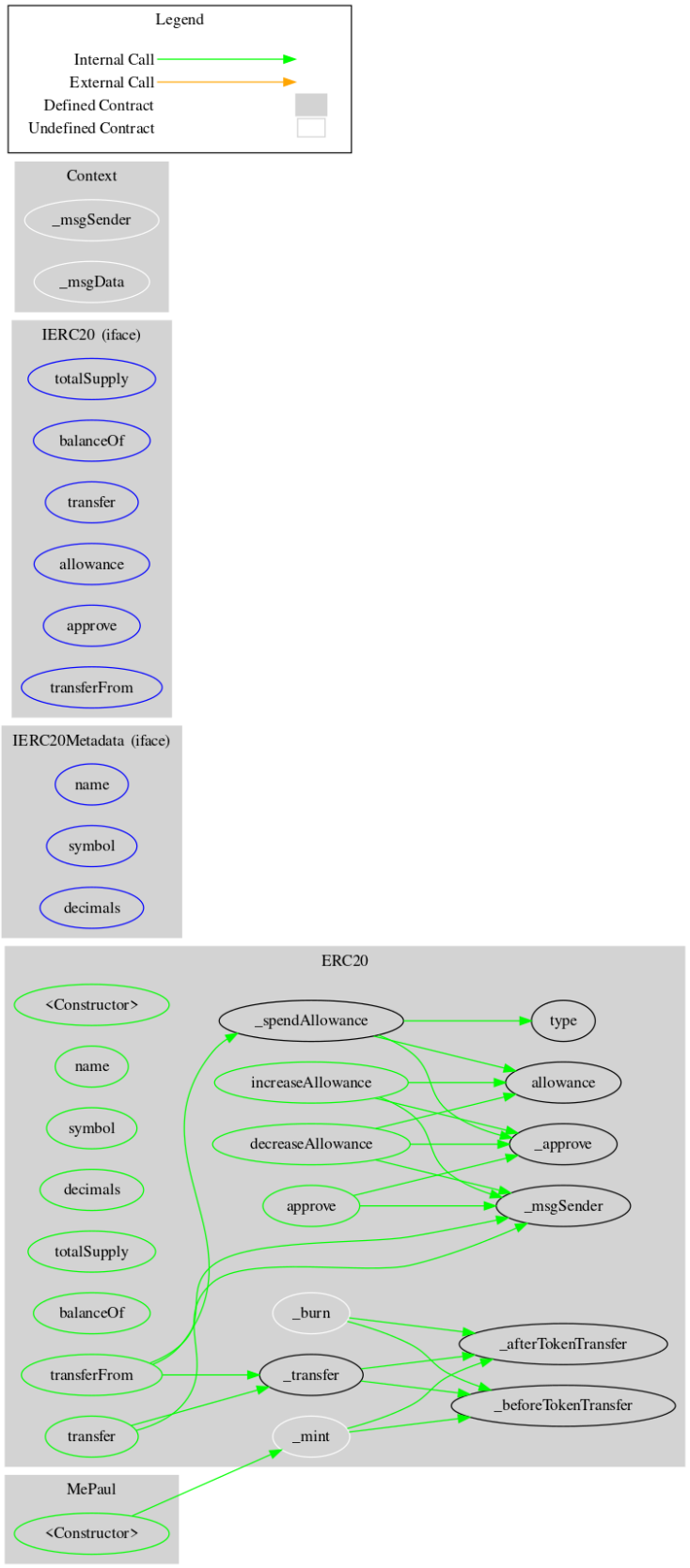
# Functions Analysis

| Contract | Type | Bases | | |
|---|---|---|---|---|
| | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
| | | | | |
| **MePaul** | Implementation | ERC20 | | |
| | | Public | ✓ | ERC20 |

## Inheritance Graph



# Flow Graph


Legend
Internal Call
External Call
Defined Contract
Undefined Contract
Context
_msgSender
_msgData
IERC20 (iface)
totalSupply
balanceOf
transfer
allowance
approve
transferFrom
IERC20Metadata (iface)
name
symbol
decimals
ERC20
<Constructor>
name
symbol
decimals
totalSupply
balanceOf
transferFrom
transfer
_spendAllowance
increaseAllowance
decreaseAllowance
approve
type
allowance
_approve
_msgSender
_burn
_transfer
_mint
_afterTokenTransfer
_beforeTokenTransfer
MePaul
<Constructor>

# Summary

Me Paul contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. Me Paul is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.

**The Cyberscope team**

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