# Cyberscope

## Audit Report

# Omniverse

September 2022

# Table of Contents

# Contract Review

| Contract Name | BEP20Token |
|---|---|
| Compiler Version | v0.5.16+commit.9c3226ce |
| Optimization | 200 runs |
| Licence | None |
| Explorer | https://bscscan.com/token/0x57f1624b974704e23adb4c1ead515ecdc937a099 |
| Symbol | OMV |
| Decimals | 18 |
| Total Supply | 1,000,000,000 |
| Domain | https://itsomniverse.com |

# Source Files

| Filename | SHA256 |
|---|---|
| contract.sol | 83bf19668d50d54a0bd1985ca51afc0cdf24de2fa63412f29197045441077e87 |

# Audit Updates

| Initial Audit | 7th September 2022 |
|---|---|
| Corrected | |

# Contract 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 | Unresolved |
| ● | BT | Burns Tokens | Passed |
| ● | BC | Blacklists Addresses | Passed |

# MT - Mints Tokens

| Criticality | critical |
|---|---|
| Location | contract.sol#L501 |
| Status | Unresolved |

## Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the mint function. As a result the contract tokens will be highly inflated.

```
function mint(uint256 amount) public onlyOwner returns (bool) {
    _mint(_msgSender(), amount);
    return true;
}
```

## Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.

# Contract Diagnostics

● Critical    ● Medium    ● Minor / Informative

| Severity | Code | Description | Status |
|:---:|:---|:---|:---|
| ● | L01 | Public Function could be Declared External | Unresolved |
| ● | L03 | Redundant Statements | Unresolved |
| ● | L09 | Dead Code Elimination | Unresolved |

# L01 - Public Function could be Declared External

| Criticality | minor / informative |
|---|---|
| Location | contract.sol#L316,465,325,484,497 |
| Status | Unresolved |

## Description

Public functions that are never called by the contract should be declared external to save gas.

```
renounceOwnership
increaseAllowance
transferOwnership
decreaseAllowance
mint
```

## Recommendation

Use the external attribute for functions never called from the contract.

# L03 - Redundant Statements

| Criticality | minor / informative |
| --- | --- |
| Location | contract.sol#L104 |
| Status | Unresolved |

## Description

The contract contains statements that are not used and have no effect. As a result, those segments increase the code size of the contract unnecessarily.

Context

## Recommendation

Remove the redundant statements in order to decrease the code size.

# L09 - Dead Code Elimination

| | |
|---|---|
| **Criticality** | minor / informative |
| **Location** | contract.sol#L553,588 |
| **Status** | Unresolved |

## Description

Functions that are not used in the contract, and make the code's size bigger.

```
_burn
_burnFrom
```

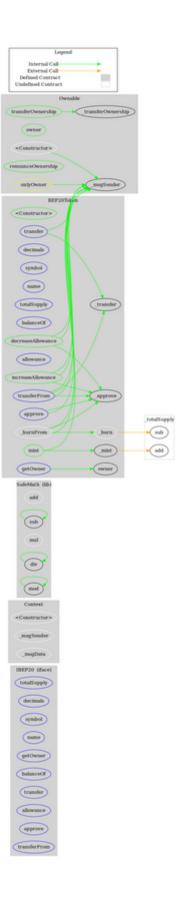## Recommendation

Remove unused functions.

# Contract Functions

| Contract | Type | Bases | | |
|----------|------|-------|--|--|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| **IBEP20** | Interface | | | |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| **Context** | Implementation | | | |
| | <Constructor> | Internal | ✓ | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| **SafeMath** | Library | | | |
| | add | Internal | | |
| | sub | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | mod | Internal | | |
| | | | | |
| **Ownable** | Implementation | Context | | |
| | <Constructor> | Internal | ✓ | |

| | owner | Public | | - |
|---|---|---|---|---|
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | _transferOwnership | Internal | ✓ | |
| | | | | |
| **BEP20Token** | Implementation | Context, IBEP20, Ownable | | |
| | <Constructor> | Public | ✓ | - |
| | getOwner | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | increaseAllowance | Public | ✓ | - |
| | decreaseAllowance | Public | ✓ | - |
| | mint | Public | ✓ | onlyOwner |
| | _transfer | Internal | ✓ | |
| | _mint | Internal | ✓ | |
| | _burn | Internal | ✓ | |
| | _approve | Internal | ✓ | |
| | _burnFrom | Internal | ✓ | |

# Contract Flow

# Domain Info

| | |
|---|---|
| **Domain Name** | itsomniverse.com |
| **Registry Domain ID** | 2720431269_DOMAIN_COM-VRSN |
| **Creation Date** | 2022-08-24T10:06:14Z |
| **Updated Date** | 2022-08-30T13:54:26Z |
| **Registry Expiry Date** | 2023-08-24T10:06:14Z |
| **Registrar WHOIS Server** | whois.yoursrs.com |
| **Registrar URL** | http://www.realtimeregister.com |
| **Registrar** | REALTIME REGISTER B.V. |
| **Registrar IANA ID** | 839 |

The domain was created 14 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.

# Summary

The Smart Contract analysis reported one critical severity issue. The contract owner has the authority to mint tokens. if the contract owner abuses the mint functionality, then the contract will be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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# About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.

The Cyberscope team

https://www.cyberscope.io