



Cyberscope

Audit Report

Telefy

March 2022

Type ERC20

Network ETH

Address 0xF1e345Ea7c33fd6c05F5512a780Eb5839EE31674

Audited by © cyberscope

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Contract Review

| | |
|-------------------------|---|
| Contract Name | TELEToken |
| Compiler Version | v0.8.12+commit.f00d7308 |
| Optimization | 200 runs |
| Licence | MIT |
| Explorer | https://etherscan.io/token/0xf1e345ea7c33fd6c05f5512a780eb5839ee31674 |
| Symbol | TELE |
| Decimals | 18 |
| Total Supply | 600,000,000 |
| Source | contract.sol |
| Domain | telefy.finance |

Audit Updates

| | |
|----------------------|-----------------|
| Initial Audit | 12th March 2022 |
| Corrected | 14th March 2022 |

Contract Analysis

● Critical ● Medium ● Minor ● Pass

| Severity | Code | Description |
|----------|------|---|
| ● | ST | Contract Owner is not able to stop or pause transactions |
| ● | OCTD | Contract Owner is not able to transfer tokens from specific address |
| ● | OTUT | Owner Transfer User's Tokens |
| ● | ELFM | Contract Owner is not able to increase fees more than a reasonable percent (25%) |
| ● | ULTW | Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent |
| ● | MT | Contract Owner is not able to mint new tokens |
| ● | BT | Contract Owner is not able to burn tokens from specific wallet |
| ● | BC | Contract Owner is not able to blacklist wallets from selling |

MT - Mint Tokens

| | |
|-------------|-------------------|
| Criticality | minor |
| Location | contract.sol#L614 |

Description

The contract owner has the ability to mint tokens in a very controlled way. Tokens can be minted once every week with a maximum limit of 0.2% of the total supply.

```
function mint(address account, uint256 amount) external {
    require(msgSender() == _minter, "TELE::mint: only the minter can mint");
    require(block.timestamp >= mintingAllowedAfter, "TELE::mint: minting not allowed yet");
    require(account != address(0), "TELE: mint to the zero address");

    // record the mint
    mintingAllowedAfter = safeAdd(block.timestamp, minimumTimeBetweenMints);

    _beforeTokenTransfer(address(0), account, amount);

    // mint amount should not exceed mint cap
    require(amount <= safeDiv(safeMul(_totalSupply, mintCap), 1000));
    _totalSupply = safeAdd(_totalSupply, amount);
    balances[account] = safeAdd(balances[account], amount);
    emit Transfer(address(0), account, amount);
    _moveDelegates(address(0), _delegates[account], amount);
}
```

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 Functions

| Contract | Type | Bases | | |
|-------------------------------|-----------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| SafeMath | Implementation | | | |
| | safeAdd | Internal | | |
| | safeSub | Internal | | |
| | safeMul | Internal | | |
| | safeDiv | Internal | | |
| | safeMod | Internal | | |
| | | | | |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| ERC20Interface | Implementation | | | |
| | totalSupply | Public | | - |
| | balanceOf | Public | | - |
| | allowance | Public | | - |
| | transfer | External | ✓ | - |
| | approve | Public | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| ApproveAndCallFallback | Implementation | | | |
| | receiveApproval | Public | ✓ | - |
| | | | | |

| | | | | |
|------------------|------------------------|--|---|-----------|
| Owned | Implementation | | | |
| | <Constructor> | Public | ✓ | - |
| | transferOwnership | External | ✓ | onlyOwner |
| | acceptOwnership | External | ✓ | - |
| | | | | |
| Address | Library | | | |
| | isContract | Internal | | |
| | sendValue | Internal | ✓ | |
| | functionCall | Internal | ✓ | |
| | functionCall | Internal | ✓ | |
| | functionCallWithValue | Internal | ✓ | |
| | functionCallWithValue | Internal | ✓ | |
| | _functionCallWithValue | Private | ✓ | |
| | | | | |
| TELEToken | Implementation | ERC20Interface, Owned, SafeMath, Context | | |
| | <Constructor> | Public | ✓ | - |
| | totalSupply | Public | | - |
| | balanceOf | Public | | - |
| | transfer | External | ✓ | - |
| | transferMultiple | External | ✓ | - |
| | approve | Public | ✓ | - |
| | permit | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | allowance | Public | | - |
| | increaseAllowance | External | ✓ | - |
| | decreaseAllowance | External | ✓ | - |
| | approveAndCall | External | ✓ | - |
| | transferAnyERC20Token | External | ✓ | onlyOwner |
| | burn | External | ✓ | - |
| | mint | External | ✓ | - |
| | setMinter | External | ✓ | - |
| | delegates | External | | - |
| | delegate | External | ✓ | - |

| | | | | |
|--|----------------------|----------|---|---|
| | delegateBySig | External | ✓ | - |
| | getCurrentVotes | External | | - |
| | getPriorVotes | External | | - |
| | _transferTokens | Internal | ✓ | |
| | _delegate | Internal | ✓ | |
| | _moveDelegates | Internal | ✓ | |
| | _writeCheckpoint | Internal | ✓ | |
| | safe32 | Internal | | |
| | getChainId | Internal | | |
| | _beforeTokenTransfer | Internal | ✓ | |

Contract Flow



Domain Info

| | |
|-------------------------------|---|
| Domain Name | telefy.finance |
| Registry Domain ID | e1860f22e64043d1a4b018459b915ca2-DONUTS |
| Creation Date | 2021-08-31T17:05:43Z |
| Updated Date | 2021-09-05T17:05:52Z |
| Registry Expiry Date | 2022-08-31T17:05:43Z |
| Registrar WHOIS Server | whois.namecheap.com |
| Registrar URL | https://www.namecheap.com/ |
| Registrar | NameCheap, Inc. |
| Registrar IANA ID | 1068 |

The domain has been created 6 months before the creation of the audit. It will expire in 6 months.

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

Summary

The Smart Contract analysis reported no compiler error or critical issues. The contract owner can mint tokens in a very controlled way. The contract also implements a governance functionality similar to the compound protocol that does not affect the contract transaction flow.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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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 provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>