



Cyberscope

Audit Report

Sleepe Token

May 2022

Type BEP20

Network BSC

Address 0xd1daa2b21483240109eb30f88cc1ad90faa983c1

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Contract Review

| | |
|-------------------------|---|
| Contract Name | Token |
| Compiler Version | v0.7.4+commit.3f05b770 |
| Optimization | 200 runs |
| Licence | GNU GPLv3 |
| Explorer | https://bscscan.com/token/0xd1DAA2b21483240109eb30F88CC1aD90faA983c1 |
| Symbol | SLE |
| Decimals | 18 |
| Total Supply | 1,000,000,000 |
| Domain | sleepe.io |

Source Files

| | |
|---------------------|--|
| Filename | SHA256 |
| contract.sol | a4ffd3f386b2f2330c69c350b5a9431e2dd74d16d9e3dd79e2b996df1dbf452c |

Audit Updates

| | |
|----------------------|--------------|
| Initial Audit | 9th May 2022 |
| Corrected | |

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 |

ST - Stop Transactions

| | |
|--------------------|-------------------------|
| Criticality | critical |
| Location | contract.sol#L612, 1436 |

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the `_feeTransfer` with a higher value than `PERCENT_DIVIDER` by calling the `changeFee` function.

```
uint256 feeTransfer = amount.mul(_feeTransfer).div(PERCENTS_DIVIDER);
uint256 amountAfterFee = amount.sub(feeTransfer);
```

The contract owner can also convert the contract into a honeypot and prevent users from selling by setting the `_numTokensSellToAddToLiquidity` to zero.

```
if (amount > _numTokensSellToAddToLiquidity && limitSell== true &&
    recipient==uniswapV2Pair) {
    revert("Limit Sell");
}
```

Recommendation

The contract could embody a check for not allowing setting the `_feeTransfer` more than a reasonable amount. A suggested implementation could check that the maximum amount should be less than a fixed percentage of the total supply.

The contract could embody a check for not allowing setting the `_numTokensSellToAddToLiquidity` less than a reasonable amount. A suggested implementation could check that the minimum amount should be more than a fixed percentage of the total supply.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

OCTD - Owner Contract Tokens Drain

| | |
|-------------|-------------------|
| Criticality | minor |
| Location | contract.sol#L983 |

Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the `transferToken` function.

```
function transferToken(  
    address coinAddress,  
    uint256 value,  
    address payable to  
) public onlyOwner {  
    if (coinAddress == address(0)) {  
        return to.transfer(value);  
    }  
    IERC20(coinAddress).transfer(to, value);  
}
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

ELFM - Exceed Limit Fees Manipulation

| | |
|-------------|--------------------------|
| Criticality | critical |
| Location | contract.sol#L1014, 1038 |

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the `changeFee` and/or `setFeeTransfer` functions with a high percentage value.

```
function changeFee(uint256 feeTransfer) public onlyOwner {  
    _feeTransfer = feeTransfer;  
}
```

```
function setFeeTransfer(uint256 newFeeTransfer) public onlyOwner {  
    require(  
        newFeeTransfer < PERCENTS_DIVIDER,  
        "Fee transfer cannot higher than 1000"  
    );  
    _feeTransfer = newFeeTransfer;  
}
```

Recommendation

The contract could embody a check for the maximum acceptable value without allowing the fees to be higher than 25%.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

MT - Mint Tokens

| | |
|--------------------|-------------------|
| Criticality | critical |
| Location | contract.sol#L907 |

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) {  
    require(_mintable, "this token is not mintable");  
    _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.

BC - Blacklisted Contracts

| | |
|-------------|-------------------|
| Criticality | critical |
| Location | contract.sol#L780 |

Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the `modifyBlackList` function.

```
require(
    !blackList[sender],
    "ERC20: transfer to the black list address"
);
require(
    !blackList[recipient],
    "ERC20: transfer to the black list address"
);
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

| Severity | Code | Description |
|----------|------|--|
| ● | CR | Code Repetition |
| ● | L01 | Public Function could be Declared External |
| ● | L02 | State Variables could be Declared Constant |
| ● | L04 | Conformance to Solidity Naming Conventions |
| ● | L07 | Missing Events Arithmetic |
| ● | L09 | Dead Code Elimination |
| ● | L11 | Unnecessary Boolean equality |
| ● | L14 | Uninitialized Variables in Local Scope |

CR - Code Repetition

Criticality

minor

Location

contract.sol#L1010, 1034

Description

There are code segments that are repetitive in the contract. Those segments increase the code size of the contract unnecessarily.

```
function changeFeeWallet(address feeWallet) public onlyOwner {  
    _feeWallet = feeWallet;  
}
```

```
function setFeeWallet(address newFeeWallet) public onlyOwner {  
    _feeWallet = newFeeWallet;  
}
```

Recommendation

Remove `changeFeeWallet` or `setFeeWallet` function and keep the other code segment.

L01 - Public Function could be Declared External

| | |
|--------------------|---|
| Criticality | minor |
| Location | contract.sol#L426,435,444,449,457,549,557,574,581,588,606,635,652,675,716,743,907,913,918,923,935,939,951,955,967,983,994,1006,1010,1014,1018,1030,1034,1038,1417 |

Description

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

```
burn
setFeeTransfer
setFeeWallet
isExcludedFromPool
modifyWhiteListPool
changeFee
changeFeeWallet
isExcludedFromBot
modifyWhiteListBot
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality

minor

Location

contract.sol#L1400

Description

Constant state variables should be declared constant to save gas.

```
maxSupply
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality

minor

Location

contract.sol#L913,971,975,979,520,521,523,1114,1116,1146,1190

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
WETH
MINIMUM_LIQUIDITY
PERMIT_TYPEHASH
DOMAIN_SEPARATOR
_feeWallet
_feeTransfer
_numTokensSellToAddToLiquidity
_enable
_pmintable
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

L07 - Missing Events Arithmetic

Criticality

minor

Location

contract.sol#L918

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
_numTokensSellToAddToLiquidity = numTokensSellToAddToLiquidity
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality

minor

Location

contract.sol#L874

Description

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

```
_setupDecimals
```

Recommendation

Remove unused functions.

L11 - Unnecessary Boolean equality

Criticality

minor

Location

contract.sol#L606,675,1421

Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
amount > _numTokensSellToAddToLiquidity && limitSell == true && recipient ==
uniswapV2Pair
sender != owner() && whitelistSender[_msgSender()] == false &&
whitelistSender[sender] == false && whitelistReceiver[recipient] == false
_msgSender() != owner() && whitelistSender[_msgSender()] == false &&
whitelistReceiver[recipient] == false
_msgSender() == owner() || whitelistSender[_msgSender()] == true ||
whitelistReceiver[recipient] == true
```

Recommendation

Remove the equality to the boolean constant.

L14 - Uninitialized Variables in Local Scope

Criticality

minor

Location

contract.sol#L998,962,1022,1001,959,930,927,946,943,1025

Description

These are variables that are defined in the local scope and are not initialized.

```
index_scope_0  
index  
...
```

Recommendation

All the local scoped variables should be initialized.

Contract Functions

| Contract | Type | Bases | | |
|-----------------|----------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| SafeMath | Library | | | |
| | tryAdd | Internal | | |
| | trySub | Internal | | |
| | tryMul | Internal | | |
| | tryDiv | Internal | | |
| | tryMod | Internal | | |
| | add | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | sub | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | | | | |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| Ownable | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |

| | | | | |
|--------------|----------------------------------|--------------------------------|---|-----------|
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | geUnlockTime | Public | | - |
| | lock | Public | ✓ | onlyOwner |
| | unlock | Public | ✓ | - |
| | | | | |
| ERC20 | Implementation | Context, IERC20, Ownable | | |
| | _initialize | Internal | ✓ | |
| | name | Public | | - |
| | symbol | Public | | - |
| | decimals | Public | | - |
| | totalSupply | Public | | - |
| | balanceOf | Public | | - |
| | transfer | Public | ✓ | - |
| | allowance | Public | | - |
| | approve | Public | ✓ | - |
| | transferFrom | Public | ✓ | - |
| | increaseAllowance | Public | ✓ | - |
| | decreaseAllowance | Public | ✓ | - |
| | _transfer | Internal | ✓ | |
| | _mint | Internal | ✓ | |
| | _burn | Internal | ✓ | |
| | _approve | Internal | ✓ | |
| | _setupDecimals | Internal | ✓ | |
| | _beforeTokenTransfer | Internal | ✓ | |
| | mint | Public | ✓ | onlyOwner |
| | enableMint | Public | ✓ | onlyOwner |
| | setNumTokensSellToAddToLiquidity | Public | ✓ | onlyOwner |
| | modifyWhiteListSender | Public | ✓ | onlyOwner |
| | isExcludedFromFee | Public | | - |
| | modifyWhiteListReceiver | Public | ✓ | onlyOwner |
| | isExcludedToFee | Public | | - |

| | | | | |
|--------------------------|---------------------|----------|---|-----------|
| | modifyBlackList | Public | ✓ | onlyOwner |
| | isBlackList | Public | | - |
| | setAntiBot | External | ✓ | onlyOwner |
| | setSwapWhiteList | External | ✓ | onlyOwner |
| | setLimitSell | External | ✓ | onlyOwner |
| | transferToken | Public | ✓ | onlyOwner |
| | modifyWhiteListBot | Public | ✓ | onlyOwner |
| | isExcludedFromBot | Public | | - |
| | changeFeeWallet | Public | ✓ | onlyOwner |
| | changeFee | Public | ✓ | onlyOwner |
| | modifyWhiteListPool | Public | ✓ | onlyOwner |
| | isExcludedFromPool | Public | | - |
| | setFeeWallet | Public | ✓ | onlyOwner |
| | setFeeTransfer | Public | ✓ | onlyOwner |
| | | | | |
| IUniswapV2Factory | Interface | | | |
| | feeTo | External | | - |
| | feeToSetter | External | | - |
| | getPair | External | | - |
| | allPairs | External | | - |
| | allPairsLength | External | | - |
| | createPair | External | ✓ | - |
| | setFeeTo | External | ✓ | - |
| | setFeeToSetter | External | ✓ | - |
| | | | | |
| IUniswapV2Pair | Interface | | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |

| | | | | |
|---------------------------|------------------------------|----------|---------|---|
| | transfer | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | DOMAIN_SEPARATOR | External | | - |
| | PERMIT_TYPEHASH | External | | - |
| | nonces | External | | - |
| | permit | External | ✓ | - |
| | MINIMUM_LIQUIDITY | External | | - |
| | factory | External | | - |
| | token0 | External | | - |
| | token1 | External | | - |
| | getReserves | External | | - |
| | price0CumulativeLast | External | | - |
| | price1CumulativeLast | External | | - |
| | kLast | External | | - |
| | burn | External | ✓ | - |
| | swap | External | ✓ | - |
| | skim | External | ✓ | - |
| | sync | External | ✓ | - |
| | initialize | External | ✓ | - |
| | | | | |
| IUniswapV2Router01 | Interface | | | |
| | factory | External | | - |
| | WETH | External | | - |
| | addLiquidity | External | ✓ | - |
| | addLiquidityETH | External | Payable | - |
| | removeLiquidity | External | ✓ | - |
| | removeLiquidityETH | External | ✓ | - |
| | removeLiquidityWithPermit | External | ✓ | - |
| | removeLiquidityETHWithPermit | External | ✓ | - |
| | swapExactTokensForTokens | External | ✓ | - |
| | swapTokensForExactTokens | External | ✓ | - |
| | swapExactETHForTokens | External | Payable | - |
| | swapTokensForExactETH | External | ✓ | - |
| | swapExactTokensForETH | External | ✓ | - |

| | | | | |
|---------------------------|---|--------------------|---------|---|
| | swapETHForExactTokens | External | Payable | - |
| | quote | External | | - |
| | getAmountOut | External | | - |
| | getAmountIn | External | | - |
| | getAmountsOut | External | | - |
| | getAmountsIn | External | | - |
| | | | | |
| IUniswapV2Router02 | Interface | IUniswapV2Router01 | | |
| | removeLiquidityETHSupportingFeeOnTransferTokens | External | ✓ | - |
| | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External | Payable | - |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | ✓ | - |
| | | | | |
| Token | Implementation | ERC20 | | |
| | <Constructor> | Public | ✓ | - |
| | burn | Public | ✓ | - |
| | _transfer | Internal | ✓ | |

Contract Flow



Domain Info

| | |
|-------------------------------|---|
| Domain Name | sleepe.io |
| Registry Domain ID | 18529b9b6ec341fba16e599c7b315b95-DONUTS |
| Creation Date | 2022-04-08T11:43:06Z |
| Updated Date | 2022-04-13T11:43:08Z |
| Registry Expiry Date | 2023-04-08T11:43:06Z |
| Registrar WHOIS Server | whois.discount-domain.com |
| Registrar URL | http://www.onamae.com |
| Registrar | GMO Internet, Inc. d/b/a Onamae.com |
| Registrar IANA ID | 49 |

The domain has been created about 1 month before the creation of the audit. It will expire in 11 months.

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

Summary

There are some functions that can be abused by the owner like stopping transactions, transferring tokens to the team's wallet, manipulating fees, minting tokens and massively blacklisting addresses. The contract can be converted into a honeypot and prevent users from selling if the owner abuses the admin functions. The contract tokens 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.

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.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

About Cyberscope

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

Cyberscope 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>