



# Audit Report

## **Cell.land**

December 2021

Type           BEP20  
Address       0xA202f9F2cad6bF168a669a9C48D2f24D47Aa0e4a  
Audited by   © coinscope

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## Contract Review

<b>Contract Name</b>	Land
<b>Compiler Version</b>	v0.8.0+commit.c7dfd78e
<b>Optimization</b>	200 runs
<b>Licence</b>	
<b>Explorer</b>	<a href="https://bscscan.com/token/0xA202f9F2cad6bF168a669a9C48D2f24D47Aa0e4a">https://bscscan.com/token/0xA202f9F2cad6bF168a669a9C48D2f24D47Aa0e4a</a>
<b>Symbol</b>	CLD
<b>Decimals</b>	18
<b>Total Supply</b>	500,000
<b>Source</b>	contracts/Land.sol, @openzeppelin/contracts/token/ERC20/extensions/ERC20Burnable.sol, @openzeppelin/contracts/access/Ownable.sol, @openzeppelin/contracts/token/ERC20/ERC20.sol, @openzeppelin/contracts/utils/Context.sol, @openzeppelin/contracts/token/ERC20/IERC20.sol, @openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol
<b>Domain</b>	cell.land

## Audit Updates

<b>Initial Audit</b>	27th December 2021
<b>Corrected</b>	

# Contract Analysis

● Critical
 ● Medium
 ● Pass

Severity	Code	Description
<span style="color: red;">●</span>	MT	Contract Owner is not able to mint new tokens
<span style="color: blue;">●</span>	BT	Contract Owner is not able to burn tokens from specific wallet
<span style="color: blue;">●</span>	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
<span style="color: blue;">●</span>	ST	Contract Owner is not able to pause transactions for everyone else except him
<span style="color: blue;">●</span>	OCTD	Contract Owner is not able to transfer tokens from specific address
<span style="color: blue;">●</span>	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
<span style="color: blue;">●</span>	BC	Contract Owner is not able to blacklist wallets from selling

## MT - Mint Tokens

**Criticality**

critical

**Location**<https://bscscan.com/address/0xA202f9F2cad6bF168a669a9C48D2f24D47Aa0e4a#code#F1#L35>

## 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(address account, uint256 amount) public onlyMinter returns (bool)
{
    _mint(account, 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

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Land</b>	Implementation	ERC20Burnable, Ownable		
	<Constructor>	Public	✓	ERC20
	setMinterAddress	Public	✓	onlyOwner
	mint	Public	✓	onlyMinter
<b>ERC20Burnable</b>	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
<b>ERC20</b>	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	Public	✓	-
	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	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-



# Contract Flow



## Domain Info

<b>Domain Name</b>	cell.land
<b>Registry Domain ID</b>	36a444b715f042e9a6add5cb7de02813-DONUTS
<b>Creation Date</b>	2021-03-13T08:56:33Z
<b>Updated Date</b>	2021-12-20T12:15:41Z
<b>Registry Expiry Date</b>	2026-03-13T08:56:33Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="https://www.namecheap.com/">https://www.namecheap.com/</a>
<b>Registrar</b>	NameCheap, Inc.
<b>Registrar IANA ID</b>	1068

The domain has been created 10 months before the creation of the audit. It will expire in about 4 years.

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

## Summary

Cell.Land is aiming to be a fully decentralized NFT-based advertising billboard in the blockchain industry. The smart contract analysis reported no compiler errors and only one critical issue. The contract owner can mint tokens to any address. That means that the owner can produce an unlimited quantity of tokens. Hence, the token's value will be 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.

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The Coinscope 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 Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Coinscope team disclaims any liability for the resulting losses.

## About Coinscope

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.

CoinScope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>