

Audit Report

Soul Piece

January 2022

Type	BEP20
Network	BSC
Address	0x9A0eF5f801930A6Bda5F86F8Bcb79629e93D53F6
Audited by	© coinscope

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Contract Review

Contract Name	SoulPiece
Compiler Version	v0.8.11+commit.d7f03943
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x9A0eF5f801930A6Bda5F86F8Bcb79629e93D53F6
Symbol	SOUL
Decimals	18
Total Supply	500,000,000
Source	contract.sol
Domain	cryptocardsnft.me

Audit Updates

Initial Audit	16th January 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	minor
Location	contract.sol#L625

Description

The contract owner has the authority to stop transactions for all users after their initial transaction. For instance, if a user buys once, he may never be able to sell again. The owner may take advantage of it by setting a high value on the `antiBotSeconds` variable.

```
if (!whitelist[msg.sender]){
    uint secondsPassed = block.timestamp - lastTrade[msg.sender];
    require(secondsPassed >= antiBotSeconds, "AntiBot: You can't trade yet.");
}
```

Recommendation

The contract could embody a check for not allowing setting the `antiBotSeconds` more than a reasonable time period.

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
	L01	Public Function could be Declared External
	L04	Conformance to Solidity Naming Conventions
	L09	Dead Code Elimination

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L421,L402,L374 and 9 more

Description

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

```
decreaseAllowance
increaseAllowance
transferFrom
...
```

Recommendation

Use the external attribute for functions never called from the contract

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L599,L598

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.

```
setAntiBotSeconds
setAntiBotStatus
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L499,L555,L575 and 1 more

Description

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

```
_burn
_beforeTokenTransfer
_afterTokenTransfer
...
```

Recommendation

Remove unused functions.

Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
ERC20	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	✓	
SoulPiece	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20
	toogleAntiBot	External	✓	onlyOwner
	setAntiBotSecs	External	✓	onlyOwner
	setWhitelist	External	✓	onlyOwner
	_beforeTokenTransfer	Internal		
	_afterTokenTransfer	Internal	✓	

Contract Flow



Domain Info

Domain Name	cryptocardsnft.me
Registry Domain ID	D425500000338242130-AGRS
Creation Date	2021-11-21T22:43:40Z
Updated Date	2021-11-23T22:34:32Z
Registry Expiry Date	2022-11-21T22:43:40Z
Registrar WHOIS Server	whois.godaddy.com
Registrar URL	http://www.godaddy.com
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created about 2 months before the creation of the audit. It will expire in 10 months.

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

Summary

Soul Piece is aiming to be a token of crypto cards game. The token has a friendly and growing community. The Smart Contract analysis reported one issue. The owner could prevent the users from performing a second transaction after the initial. 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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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