



Cyberscope

Audit Report

Hongkong

July 2022

Type	BEP20
Network	BSC_TESTNET
Address	0x20F951bF4495529F8334f39798012aefD1e1e1e3
Audited by	© cyberscope

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Contract Review

Contract Name	HongKong
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	MIT
Explorer	https://testnet.bscscan.com/address/0x20F951bF4495529F8334f39798012aefD1e1e1e3#code
Symbol	Hk
Decimals	18
Total Supply	1,000,000,000
Domain	https://www.hongkongtoken.com/en

Source Files

Filename	SHA256
contract.sol	487ec4cb37cf2bb3d56b070bd37a9831f1c533943ff63b24cc41662d202c2999

Audit Updates

Initial Audit	19th July 2022
Corrected	26th July 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

ST - Stop Transactions

Criticality	minor
Location	contract.sol#L153

Description

The contract owner has the authority to stop transactions for all users including the owner. The owner may use this functionality by setting `_pause` to true with the `pause` method.

```
require(!_paused,"Contract is Paused.");
```

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
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions

L01 - Public Function could be Declared External

Criticality

minor

Location

contract.sol#L112,83,132,79,91,95,125,75,87,105,70

Description

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

```
pause
approve
totalSupply
name
increaseAllowance
transfer
balanceOf
symbol
decreaseAllowance
...
```

Recommendation

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

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L61

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.

```
_paused
```

Recommendation

Follow the Solidity naming convention.

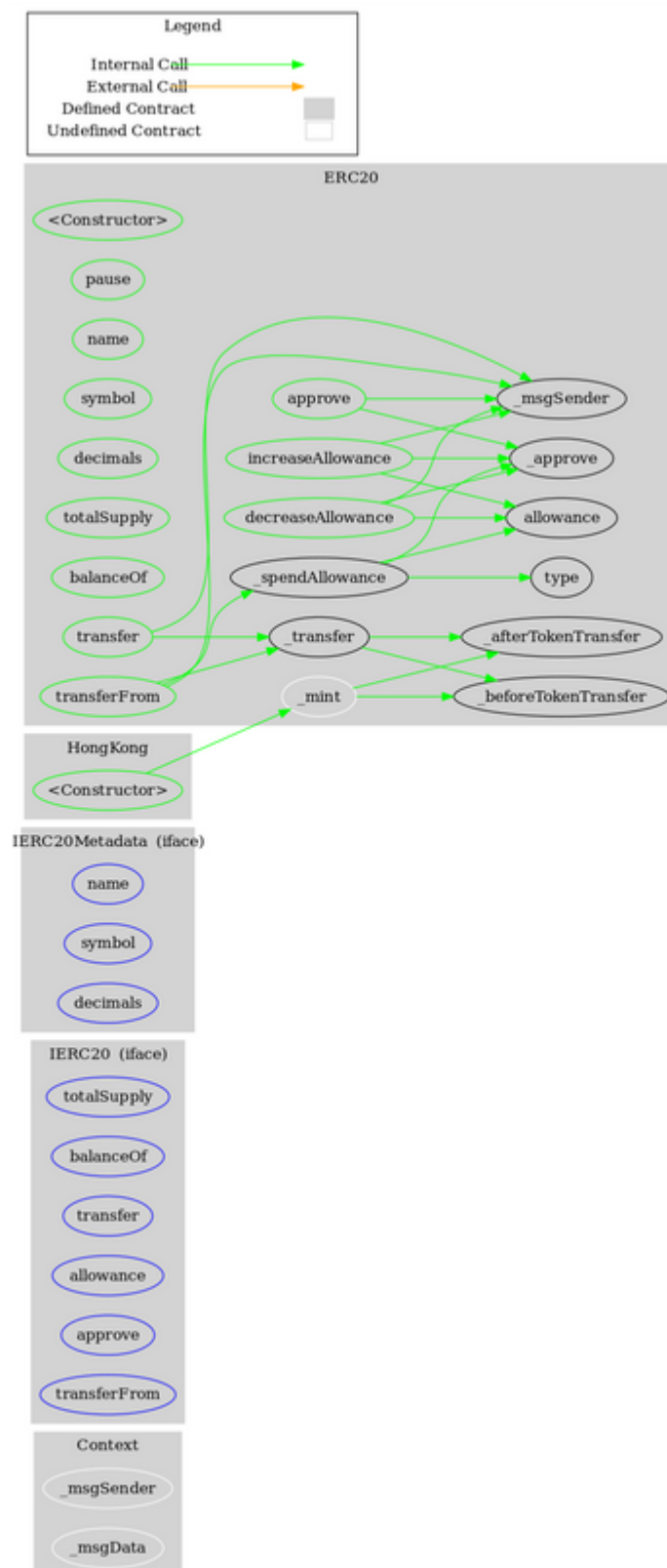
<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	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	✓	-
	pause	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	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
HongKong	Implementation	ERC20		
	<Constructor>	Public	✓	ERC20

Contract Flow



Domain Info

Domain Name	hongkongtoken.com
Registry Domain ID	2676445394_DOMAIN_COM-VRSN
Creation Date	2022-02-20T16:47:16Z
Updated Date	2022-06-27T17:14:43Z
Registry Expiry Date	2024-02-20T16:47:16Z
Registrar WHOIS Server	whois.isimtescil.net
Registrar URL	http://www.isimtescil.net
Registrar	Isimtescil Bilisim A.S.
Registrar IANA ID	3826

The domain has been created in over 1 year before the creation of the audit.

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

Summary

The Smart Contract analysis reported one minor severity issue. The contract owner has the authority to stop transactions. 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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The Cyberscope team disclaims any liability for the resulting losses.

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>