



Cyberscope

Audit Report

MetaVision

September 2022

SHA256 6a4d33763037aba5f6ccc91707080d999224914287903897c4d20309811a8bee

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Contract Review

Contract Name	MetaVision
Compiler Version	v0.8.6+commit.11564f7e
Optimization	200 runs
Testing Deploy	https://testnet.bscscan.com/address/0x07FD589B1d253d82CC6dEC190440b431d2CE6Ca8#code
Symbol	MVIS
Decimals	18
Total Supply	1,000,000,000
Domain	https://meta-vision.online

Source Files

Filename	SHA256
contract.sol	6a4d33763037aba5f6ccc91707080d999224914287903897c4d20309811a8bee

Audit Updates

Initial Audit	2nd September 2022
Corrected	

Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Unresolved
●	OCTD	Transfers Contract's Tokens	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	ULTW	Transfers Liquidity to Team Wallet	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

ST - Stops Transactions

Criticality	minor / informative
Location	contract.sol#L783
Status	Unresolved

Description

The contract owner has the authority to stop the transactions for all users including the owner. The owner may take advantage of it by calling the `pause` method.

```
function _beforeTokenTransfer(address from, address to, uint256 amount)
    internal
    whenNotPaused
    override
{
    super._beforeTokenTransfer(from, to, amount);
}
```

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 / Informative

Severity	Code	Description	Status
●	L01	Public Function could be Declared External	Unresolved

L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L494,756,780,90,537,406,437,449,517,98,398,430,472,776,741
Status	Unresolved

Description

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

```
transferFrom  
burnFrom  
unpause  
renounceOwnership  
decreaseAllowance  
symbol  
balanceOf  
transfer  
increaseAllowance  
...
```

Recommendation

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

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
Pausable	Implementation	Context		
	<Constructor>	Public	✓	-
	paused	Public		-
	_requireNotPaused	Internal		
	_requirePaused	Internal		
	_pause	Internal	✓	whenNotPaused
	_unpause	Internal	✓	whenPaused
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	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
ERC20Burnable	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-

MetaVision	Implementation	ERC20, ERC20Burn able, Pausable, Ownable		
	<Constructor>	Public	✓	ERC20
	pause	Public	✓	onlyOwner
	unpause	Public	✓	onlyOwner
	_beforeTokenTransfer	Internal	✓	whenNotPaus ed

Contract Flow



Domain Info

Domain Name	meta-vision.online
Registry Domain ID	D257178864-CNIC
Creation Date	2021-10-31T13:20:51+00:00
Updated Date	2022-01-18T16:25:15+00:00
Registry Expiry Date	2022-10-31T23:59:59+00:00
Registrar WHOIS Server	whois.isimtescil.net
Registrar URL	http://www.isimtescil.net
Registrar	Isimtescil Bilisim A.S.
Registrar IANA ID	3826

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

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. Other than that, the contract owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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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>