



Cyberscope

Audit Report

Meta Warriors

October 2022

Type BEP20

Network BSC

Address 0x8b5c90Bc42A83321DE46823F4B3F44c724261Ce6

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Table of Contents

Table of Contents	1
Contract Review	2
Source Files	2
Audit Updates	2
Contract Analysis	3
Contract Diagnostics	4
L01 - Public Function could be Declared External	5
Description	5
Recommendation	5
L02 - State Variables could be Declared Constant	6
Description	6
Recommendation	6
L09 - Dead Code Elimination	7
Description	7
Recommendation	7
Contract Functions	8
Contract Flow	10
Domain Info	11
Summary	12
Disclaimer	13
About Cyberscope	14

Contract Review

Contract Name	MWS
Compiler Version	v0.8.0+commit.c7dfd78e
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0x8b5c90Bc42A83321DE46823F4B3F44c724261Ce6
Symbol	MWS
Decimals	18
Total Supply	100,000,000
Domain	metawarriors.world

Source Files

Filename	SHA256
contract.sol	e8d92efb91eeafd5b48a37e0ef4ff936c3b1cd5427a62da0e6ae33f4061a590e

Audit Updates

Initial Audit	7th October 2022 https://github.com/cyberscope-io/audits/blob/main/mws/v1/audit.pdf
Corrected	17th October 2022

Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	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

Contract Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	L01	Public Function could be Declared External	Unresolved
●	L02	State Variables could be Declared Constant	Unresolved
●	L09	Dead Code Elimination	Unresolved

L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L86,94,280,288,305,312,319,331,360,387,410,434
Status	Unresolved

Description

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

```
renounceOwnership  
transferOwnership  
name  
symbol  
decimals  
totalSupply  
balanceOf  
transfer  
approve  
...
```

Recommendation

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

L02 - State Variables could be Declared Constant

Criticality	minor / informative
Location	contract.sol#L631
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

```
totalSupply_
```

Recommendation

Add the constant attribute to state variables that never change.

L09 - Dead Code Elimination

Criticality	minor / informative
Location	contract.sol#L520
Status	Unresolved

Description

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

```
_burn
```

Recommendation

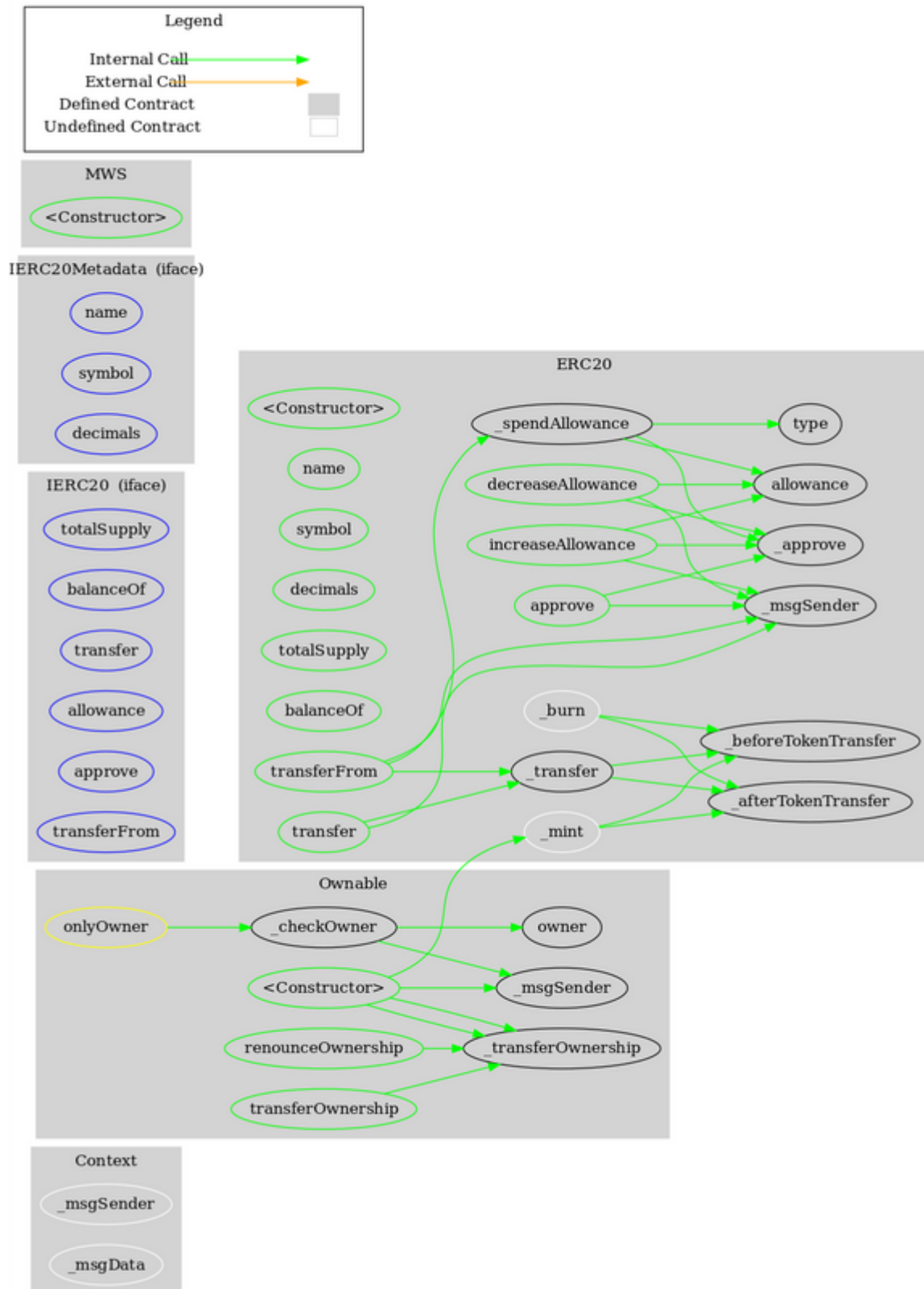
Remove unused functions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	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	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
MWS	Implementation	ERC20, Ownable		
	<Constructor>	Public	✓	ERC20

Contract Flow



Domain Info

Domain Name	metawarriors.world
Registry Domain ID	52cc5fb1be1b4bb08e12f72f213dfc98-DONUTS
Creation Date	2021-11-24T17:33:38Z
Updated Date	2022-07-29T05:59:16Z
Registry Expiry Date	2022-11-24T17:33:38Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=8990
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain was created 11 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

Meta Warriors Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions

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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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.

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The Cyberscope team

<https://www.cyberscope.io>



Cyberscope

Audit Report

Meta Warriors

October 2022

Type BEP20

Network BSC

Address 0xdBdfe0DaB465058601640F7a708D53003fF81572

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Table of Contents

Table of Contents	1
Contract Review	2
Source Files	2
Audit Updates	2
Contract Analysis	3
BC - Blacklists Addresses	4
Recommendation	4
Contract Diagnostics	5
US - Untrusted Source	6
Description	6
Recommendation	6
L02 - State Variables could be Declared Constant	7
Description	7
Recommendation	7
L09 - Dead Code Elimination	8
Description	8
Recommendation	8
Contract Functions	9
Contract Flow	11
Domain Info	12
Summary	13
Disclaimer	14
About Cyberscope	15

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Symbol	MWS
Decimals	18
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Domain	https://metawarriors.world

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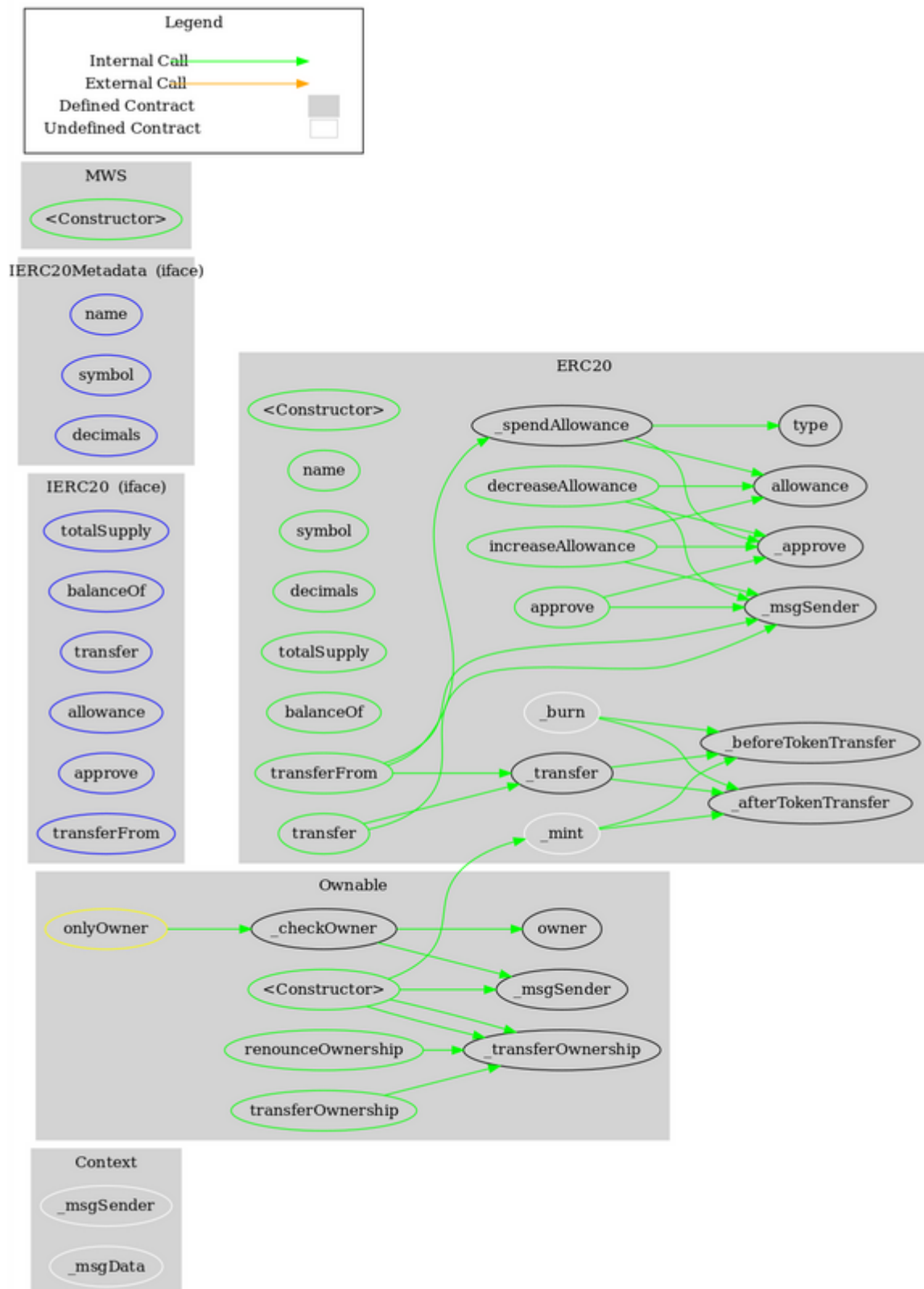
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	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	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	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
MWS	Implementation	ERC20, Ownable		
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