



Audit Report

Battle of MultiWorld

December 2021

Type BEP20

Address 0xCd47516F04EeCAB6E4c2d23582d53c2593BA2266

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Contract Review

Contract Name	BMW
Compiler Version	v0.8.0+commit.c7dfd78e
Optimization	No with 200 runs
Licence	NONE
Explorer	https://testnet.bscscan.com/token/0xCd47516F04EeCAB6E4c2d23582d53c2593BA2266
Symbol	BMW
Decimals	18
Total Supply	1,000,000,000
Website	https://bmwar.io/

Audit Updates

Initial Audit	18th of December 2021
Corrected	

Contract Analysis

● Critical
 ● Medium
 ● Pass

Severity	Code	Description
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (10%)
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	BC	Contract Owner is not able to blacklist wallets from selling

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
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			

	_msgSender	Internal		
	_msgData	Internal		
ERC20	Implementation	Context, IERC20, IERC20M etadata		
		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	✓	
ERC20Burnable	Implementation	Context, ERC20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
AntiBot	Interface			
	protect	External	✓	-

BMW	Implementation	ERC20, ERC20Bu rnable, Ownable		
		Public	✓	ERC20
	setABAddress	External	✓	onlyOwn er
	setABEnabled	External	✓	onlyOwn er
	_transfer	Internal	✓	

Legend

- Internal Call (Green arrow)
- External Call (Orange arrow)
- Defined Contract (Grey arrow)
- Undefined Contract (Grey arrow)

BMW

- <Constructor>
- setABAddress
- setABEnabled
- _transfer

ERC20

- <Constructor>
- name
- symbol
- decimals
- totalSupply
- balanceOf
- approve
- allowance
- increaseAllowance
- decreaseAllowance
- transferFrom
- transfer
- approve
- msgSender
- _burn
- _mint
- transfer
- afterTokenTransfer
- beforeTokenTransfer

ERC20Burnable

- burnFrom
- burn
- allowance

Context

- _msgSender
- _msgData

IERC20Metadata (iface)

- name
- symbol
- decimals

IERC20 (iface)

- totalSupply
- balanceOf
- transfer
- allowance
- approve
- transferFrom

Ownable

- onlyOwner
- <Constructor>
- transferOwnership
- renounceOwnership
- transfer
- owner
- _msgSender
- transferOwnership

AntiBot (iface)

- protect

Domain Info

Domain Name	bmwar.io
Registry Domain ID	3fa7dd5572104a7696688b837b8af379-DONUTS
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Updated Date	2021-11-13T08:40:42Z
Creation Date	2021-10-19T15:50:11Z
Registry Expiry Date	2022-10-19T15:50:11Z
Registrar	NameCheap, Inc.
Registrar IANA ID	1068

The domain has been created 2 months before the analysis of the audit. It is set for expiration in one year.

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

Summary

Battle of MultiWorld - \$BMW is an NFT game which is built on Binance Smart Chain platform in which it supports players in controlling their digital property to join the game. The token has a friendly and growing community. The smart contract analysis showed no compiler errors or critical issues. There are only a few functions the contract Owner can invoke, and they cannot be used in a malicious way to disturb the holder's transactions.

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About Coinscope

CoinScope is the leading early coin listing, voting and auditing authority firm. The audit process is analysing 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>