Cyberscope

Audit Report

MangoMan Intelligent

November 2022

Type	BEP20
Network	BSC
Address	0x9767c8E438Aa18f550208e6d1fDf5f43541cC2c8
Audited by	© cyberscope

Table of Contents

Contract Review

Contract Name	MangoManIntelligent
Compiler Version	v0.5.17+commit.d19bba13
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x9767c8E438Aa18f550208e6d1fDf5f43541cC2c8
Symbol	MMIT
Decimals	18
Total Supply	2,100,000,000,000,000
Domain	mmint.io

Source Files

Filename	**SHA256**
contract.sol	f0c9f141a5ce0444a9dd1ab327b49b4695c29907819b2d9edd612a744137835b

Audit Updates

Initial Audit	10th November 2022
Corrected	

IDO Mechanism

The contract offers two presale phases, where anyone can exchange the native currency for tokens. Phase one was available for 72 hours, with a contribution price of 121428571428. On the other hand, phase two was available for 14 days, with a contribution price of 60714285714. Both phases include a referral mechanism, in which the referrer gets a reward. The referrer's reward is 7% of the respective price. Phase one was ended at 30 May 2022 and phase two at 13 June 2022.

Launch Token Distribution

Address	Tokens	Released At
0x2204190B8695B2EeCd0311aaFaF879f912837D35	210,000,000,000,000	27 May 2022
0x8F21F6c7Fd7614D40cA3222F1013694D7cCb99fE	147,000,000,000,000	23 November 2022
0x3D5d14175cE1363B661B8C1e3f57cbEE84e7d668	105,000,000,000,000	22 May 2023
0x2d046ca7D7b1E46c94Cb4A8ECe06eCEEf7e2E32C	21,000,000,000,000	30 May 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
●	RC	Redundant Checks	Unresolved
●	MTE	Missing Transfer Event	Unresolved
●	L02	State Variables could be Declared Constant	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L13	Divide before Multiply Operation	Unresolved

RC - Redundant Checks

Criticality	minor / informative
Location	contract.sol#L630-635, L644-649
Status	Unresolved

Description

Both checks inside the if-statements are not required because of the condition in lines 627 and 641 respectively.

```
require(block.timestamp <= _initialization + 72 hours, "Presale phase 1 completed!");

....

require(block.timestamp <= _initialization + 14 days && block.timestamp > _initialization + 72 hours, "Presale phase 2 completed!");

....

    if(msg.sender==_developer){
      require(block.timestamp > _initialization + 180 days,"ERC20: Token is locked");
    }
    if(msg.sender==_liquidity){
      require(block.timestamp > _initialization + 360 days,"ERC20: Token is locked");
    }
```

Recommendation

The team is advised to carefully check if the implementation follows the expected business logic.

MTE - Missing Transfer Event

Criticality	minor / informative
Location	contract.sol#L379, L663
Status	Unresolved

Description

The constructor is not emitting a transfer event for _oldTransferer. Additionally, the same thing happens during the two presale periods.

```
    emit Transfer(address(0), _marketing, _totalSupply.mul(marketingShare).div(100));
    emit Transfer(address(0), _developer, _totalSupply.mul(developerShare).div(100));
    emit Transfer(address(0), _liquidity, _totalSupply.mul(liquidityShare).div(100));
    emit Transfer(address(0), msg.sender, _totalSupply.mul(77).div(100));

  ......
//emit Transfer(_owner, buyer,  bnb.mul(price));
```

Recommendation

The team is advised to emit a transfer event at the constructor for _oldTransferer, as well as uncomment line 663 on prelase function.

L02 - State Variables could be Declared Constant

Criticality	minor / informative
Location	contract.sol#L355,354,356,357
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

```
_developer
_marketing
_liquidity
_oldTransferer
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L352,355,360,362,353,359,357,354,361,356
Status	Unresolved

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.

```
_initialization
_developer
developerShare
oldShare
_owner
marketingShare
_oldTransferer
_marketing
liquidityShare
...
```

Recommendation

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

L13 - Divide before Multiply Operation

Criticality	minor / informative
Location	contract.sol#L654
Status	Unresolved

Description

Performing divisions before multiplications may cause lose of prediction.

```
reward = (bnb.mul(7).div(100)).mul(price)
```

Recommendation

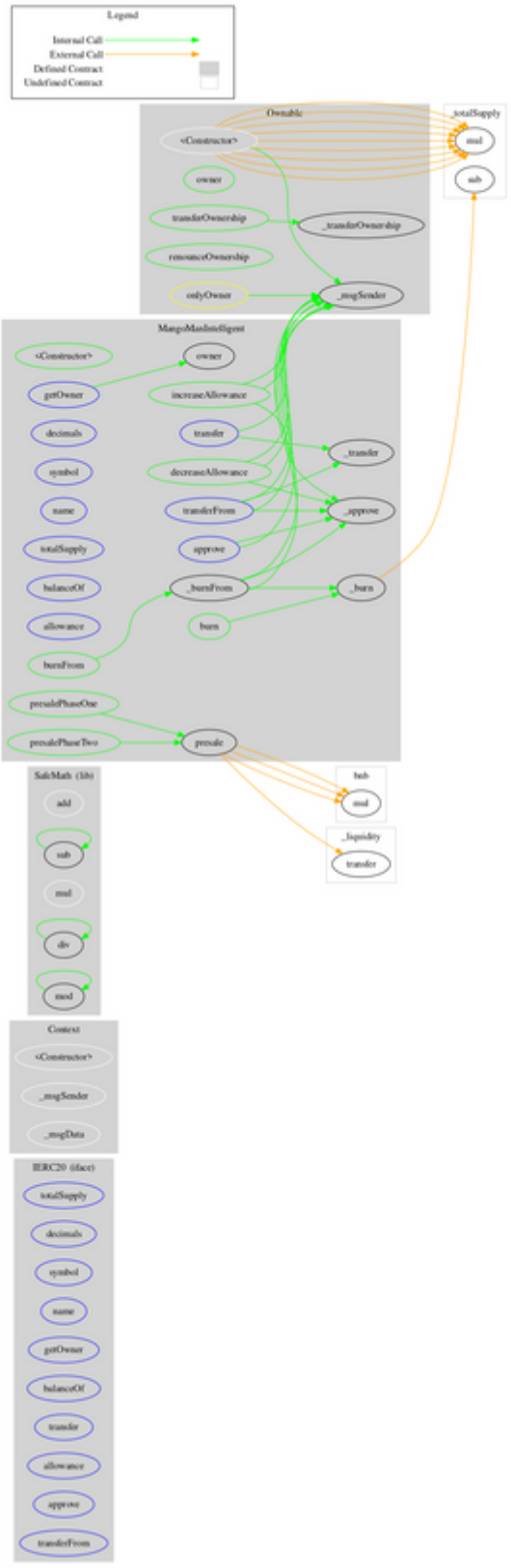
The multiplications should be prior to the divisions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	<Constructor>	Internal	✓	
	_msgSender	Internal		
	_msgData	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Ownable	Implementation	Context		
	<Constructor>	Internal	✓	

	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
MangoManIntelligent	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	getOwner	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	burn	Public	✓	onlyOwner
	burnFrom	Public	✓	-
	_transfer	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_burnFrom	Internal	✓	
	presalePhaseOne	Public	Payable	-
	presalePhaseTwo	Public	Payable	-
	presale	Private	✓	

Contract Flow



Domain Info

Domain Name	mmint.io
Registry Domain ID	b2b413dd964545568b21b187dc75ed5a-DONUTS
Creation Date	2022-02-25T13:48:22Z
Updated Date	2022-03-07T22:25:08Z
Registry Expiry Date	2023-02-25T13:48:22Z
Registrar WHOIS Server	whois.advancedregistrar.com
Registrar URL	http://www.netearthone.com
Registrar	NetEarth One Inc. dba NetEarth
Registrar IANA ID	1005

The domain was created 9 months before the creation of the audit. It will expire in 4 months.

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

Summary

MangoMan Intelligent 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.

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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.

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