



Cyberscope

# Audit Report

## **Meta Launcher**

March 2023

Type	BEP20
Network	BSC
Address	0x36f84eE7f720312443C02389A08185E3ecf0eBeD
Audited by	© cyberscope

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## Review

Contract Name	BEP20
Compiler Version	v0.7.6+commit.7338295f
Optimization	200 runs
Explorer	<a href="https://bscscan.com/address/0x36f84ee7f720312443c02389a08185e3ecf0ebed">https://bscscan.com/address/0x36f84ee7f720312443c02389a08185e3ecf0ebed</a>
Address	0x36f84ee7f720312443c02389a08185e3ecf0ebed
Network	BSC
Symbol	MTLA
Decimals	18
Total Supply	500,000,000

## Audit Updates

Initial Audit	04 Mar 2023 <a href="https://github.com/cyberscope-io/audits/blob/main/mtla/v1/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/mtla/v1/audit.pdf</a>
Corrected Phase 2	06 Mar 2023 <a href="https://github.com/cyberscope-io/audits/blob/main/mtla/v2/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/mtla/v2/audit.pdf</a>
Corrected Phase 3	07 Mar 2023

## Source Files

Filename	SHA256
BEP20.sol	32980e6e55abffc845a434d55e18de82b4a6bbfc3265cf863dee4e111e7c1f3f

# 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

# Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	IDI	Immutable Declaration Improvement	Unresolved

## IDI - Immutable Declaration Improvement

<b>Criticality</b>	Minor / Informative
<b>Location</b>	contracts/MTLA.sol#L353,354,355,356
<b>Status</b>	Unresolved

### Description

The contract is using variables that initialize them only in the constructor. The other functions are not mutating the variables. These variables are not defined as `immutable`.

```
_name  
_symbol  
_decimals  
_totalSupply
```

### Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.

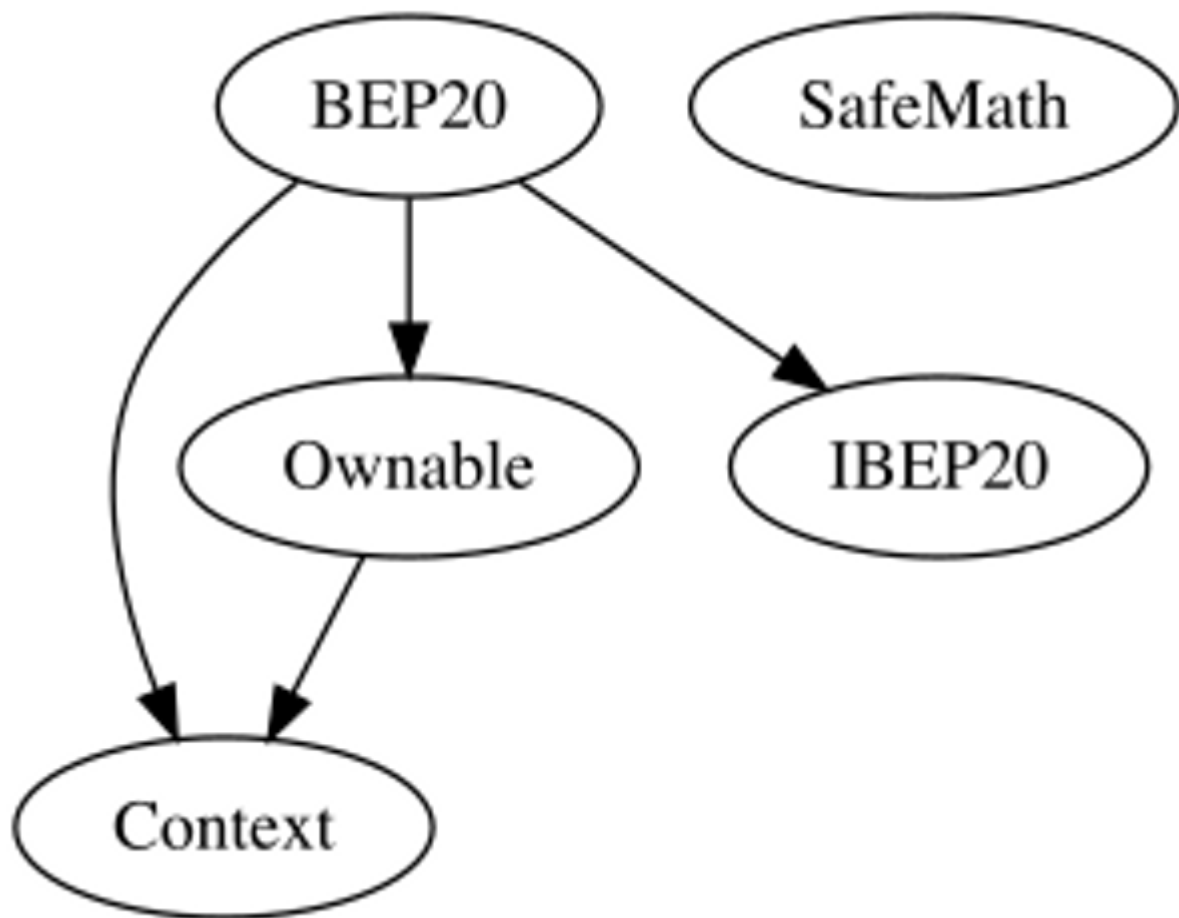
# Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Ownable</b>	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
<b>IBEP20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		

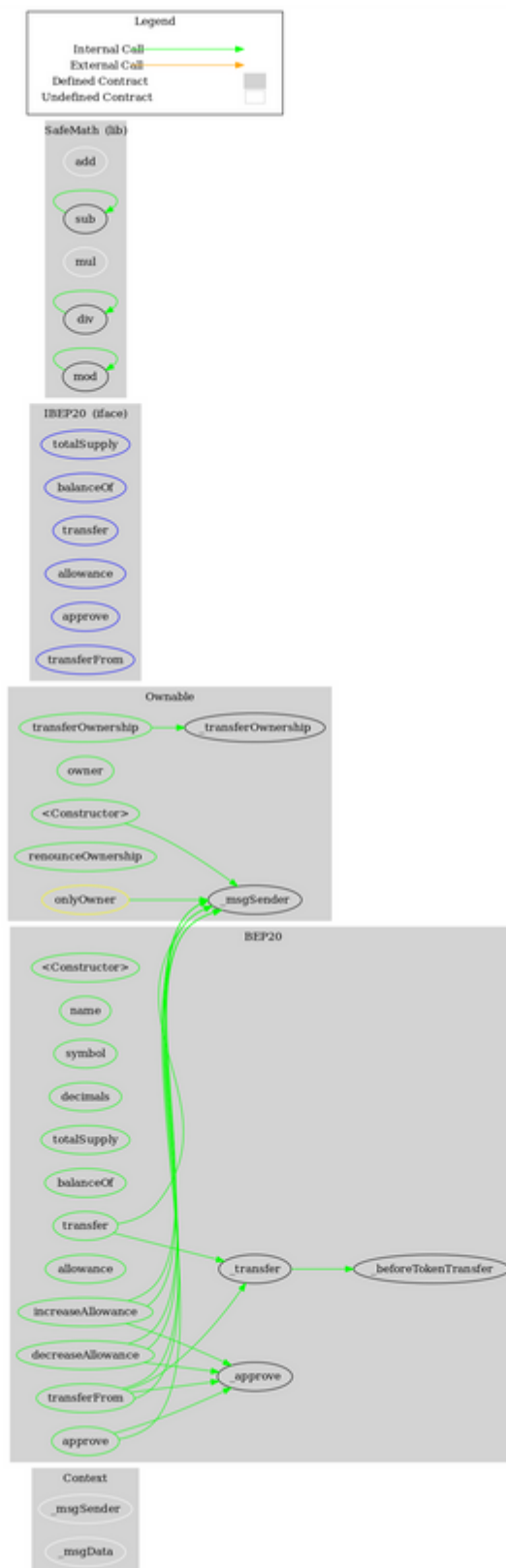
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
<b>BEP20</b>	Implementation	Context, IBEP20, Ownable		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	



## Inheritance Graph



# Flow Graph



## Summary

Meta Launcher is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors 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

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## About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

<https://www.cyberscope.io>