

Audit Report

Gait Protocol

July 2022

Type BEP20

Network BSC

Address 0x748A8AB084f78A8a39FB8621a2c379f2df0B6ad7

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Contract Review

Contract Name	BEP20Token
Compiler Version	v0.5.16+commit.9c3226ce
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x748a8ab084f78a8a39fb8 621a2c379f2df0b6ad7
Symbol	GTP
Decimals	18
Total Supply	543,556,889
Domain	gaitprotocol.com

Source Files

Filename	SHA256
contract.sol	739340bcab6da1a2f933d961df209551a5fcd9f5165a14 1369b955dcbaa477b5

Audit Updates

Initial Audit	8th July 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

Severity	Code	Description
•	ST	Contract Owner is not able to stop or pause transactions
•	OCTD	Contract Owner is not able to transfer tokens from specific address
•	OTUT	Owner Transfer User's Tokens
•	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
•	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
•	MT	Contract Owner is not able to mint new tokens
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling

MT - Mint Tokens

Criticality	critical
Location	contract.sol#L501

Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the mint function. As a result the contract tokens will be highly inflated.

```
function mint(uint256 amount) public onlyOwner returns (bool) {
   _mint(_msgSender(), amount);
   return true;
}
```

Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.



Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L09	Dead Code Elimination



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L320,329,469,488,501

Description

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

mint
decreaseAllowance
increaseAllowance
transferOwnership
renounceOwnership

Recommendation

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



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L557,592

Description

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

_burnFrom _burn

Recommendation

Remove unused functions.



Contract Functions

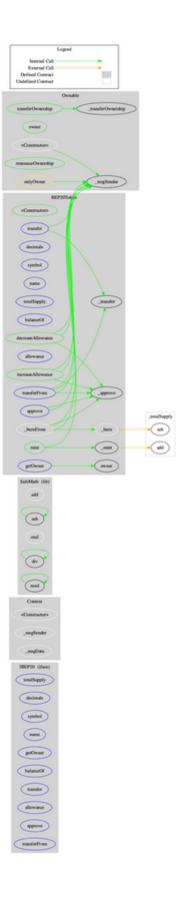
Туре	Bases		
Function Name	Visibility	Mutability	Modifiers
	_		
			-
			-
symbol	External		-
name	External		-
getOwner	External		-
balanceOf	External		-
transfer	External	✓	-
allowance	External		-
approve	External	✓	-
transferFrom	External	1	-
		/	
_msgData	Internal		
Library			
add	Internal		
sub	Internal		
sub	Internal		
mul	Internal		
div	Internal		
div	Internal		
mod	Internal		
mod	Internal		
Implementation	Context		
	Function Name Interface totalSupply decimals symbol name getOwner balanceOf transfer allowance approve transferFrom Implementation <constructor> _msgSender _msgData Library add sub sub mul div div mod</constructor>	Function Name Visibility Interface totalSupply	Function Name Visibility Mutability Interface totalSupply decimals symbol External symbol External getOwner External balanceOf transfer allowance approve External transferFrom External Approve Implementation <constructor> _msgSender _msgData Library add Internal sub Internal mul div Internal mod Internal mod Internal Internal</constructor>



	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
BEP20Token	Implementation	Context, IBEP20, Ownable		
	<constructor></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	✓	-
	mint	Public	✓	onlyOwner
	_transfer	Internal	1	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	1	
	_burnFrom	Internal	1	



Contract Flow



Domain Info

Domain Name	gaitprotocol.com
Registry Domain ID	2700833954_DOMAIN_COM-VRSN
Creation Date	2022-06-02T17:21:18.00Z
Updated Date	0001-01-01T00:00:00.00Z
Registry Expiry Date	2023-06-02T17:21:18.00Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain has been created in 11 months before the creation of the audit.

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

Summary

The Smart Contract analysis reported one critical severity issue. The contract owner has the authority to mint tokens. If the contract owner abuses the mint functionality, then the contract will be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

Disclaimer

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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