

# Audit Report PARMY

November 2023

SHA256

ebe25db0284aa8157641e3e9dda5238b5896fcadce88dfd055958d850a3cb3a3

Audited by © cyberscope

# **Analysis**

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	Mints Tokens	Unresolved
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



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## **Review**

Testing Deploy	https://testnet.bscscan.com/address/0xd79dc2febb24de16bb6
	7da552bbcc0a372adb9db

## **Audit Updates**

Initial Audit	09 Nov 2023
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## **Source Files**

Filename	SHA256
contracts/ParmyToken.sol	ebe25db0284aa8157641e3e9dda5238b5896fcadce88dfd055958d850a 3cb3a3



# **Findings Breakdown**



Severity		Unresolved	Acknowledged	Resolved	Other
•	Critical	1	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	0	0	0	0



#### **MT - Mints Tokens**

Criticality	Critical
Location	contracts/ParmyToken.sol#L252
Status	Unresolved

### 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(address to, uint256 amount) public onlyOwner {
   __mint(to, amount);
}
```

#### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions.

#### Temporary Solutions:

These measurements do not decrease the severity of the finding

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-signature wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.

#### Permanent Solution:

Renouncing the ownership, which will eliminate the threats but it is non-reversible.



# **Functions Analysis**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadat a	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		



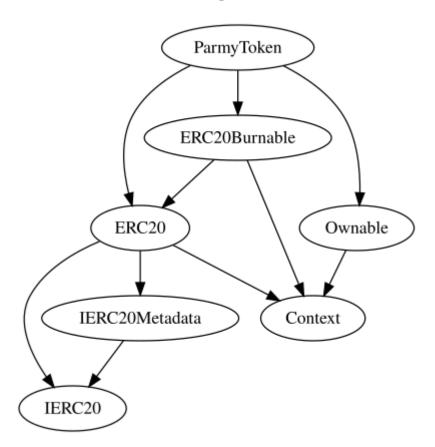
ERC20	Implementation	Context, IERC20, IERC20Meta data		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
ERC20Burnable	Implementation	Context, ERC20		



	burn	Public	✓	-
	burnFrom	Public	✓	-
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
ParmyToken	Implementation	ERC20, ERC20Burna ble, Ownable		
		Public	✓	ERC20
	mint	Public	1	onlyOwner

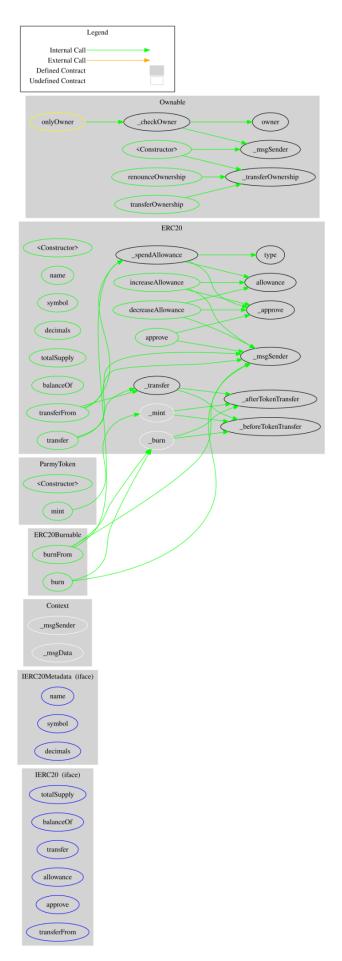


# **Inheritance Graph**





## Flow Graph





## **Summary**

PARMY Token contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. There are some functions that can be abused by the owner like 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.



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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