Cyberscope

Audit Report

ShibaKeanu

February 2024

SHA256 16ef4b3a91dd46a9ab02cb9440bba1a1054ee869a97801dbbe9c85620ae74de8

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Analysis

Critical Medium Minor / Informative Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
	CR	Code Repetition	Unresolved

Table of Contents

Review

Contract Name	ShibaKeanu
Testing Deploy	https://mumbai.polygonscan.com/address/0xc2d5b5011bd033593b911e6d4bf67629ef863f59
Symbol	SHIBK
Decimals	18
Total Supply	888,000,000,000,000
Badge Eligibility	Yes

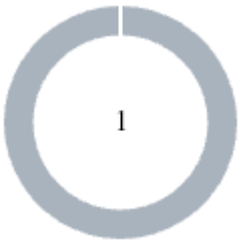
Audit Updates

Initial Audit	14 Feb 2024
Corrected Phase 2	18 Feb 2024
Corrected Phase 3	20 Feb 2024

Source Files

Filename	SHA256
contracts/ShibaKeanu.sol	16ef4b3a91dd46a9ab02cb9440bba1a1054ee869a97801dbbe9c85620ae74de8

Findings Breakdown



Critical	0
Medium	0
Minor / Informative	1

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

CR - Code Repetition

Criticality	Minor / Informative
Location	contracts/ShibaKeanu.sol#L535,542
Status	Unresolved

Description

The contract contains repetitive code segments. There are potential issues that can arise when using code segments in Solidity. Some of them can lead to issues like gas efficiency, complexity, readability, security, and maintainability of the source code. It is generally a good idea to try to minimize code repetition where possible.

```
unchecked {
    _balances[from] = fromBalance - amount;
}
_balances[to] += amount;
emit Transfer(from, to, amount);
```

Recommendation

The team is advised to avoid repeating the same code in multiple places, which can make the contract easier to read and maintain. The authors could try to reuse code wherever possible, as this can help reduce the complexity and size of the contract. For instance, the contract could reuse the common code segments in an internal function in order to avoid repeating the same code in multiple places.

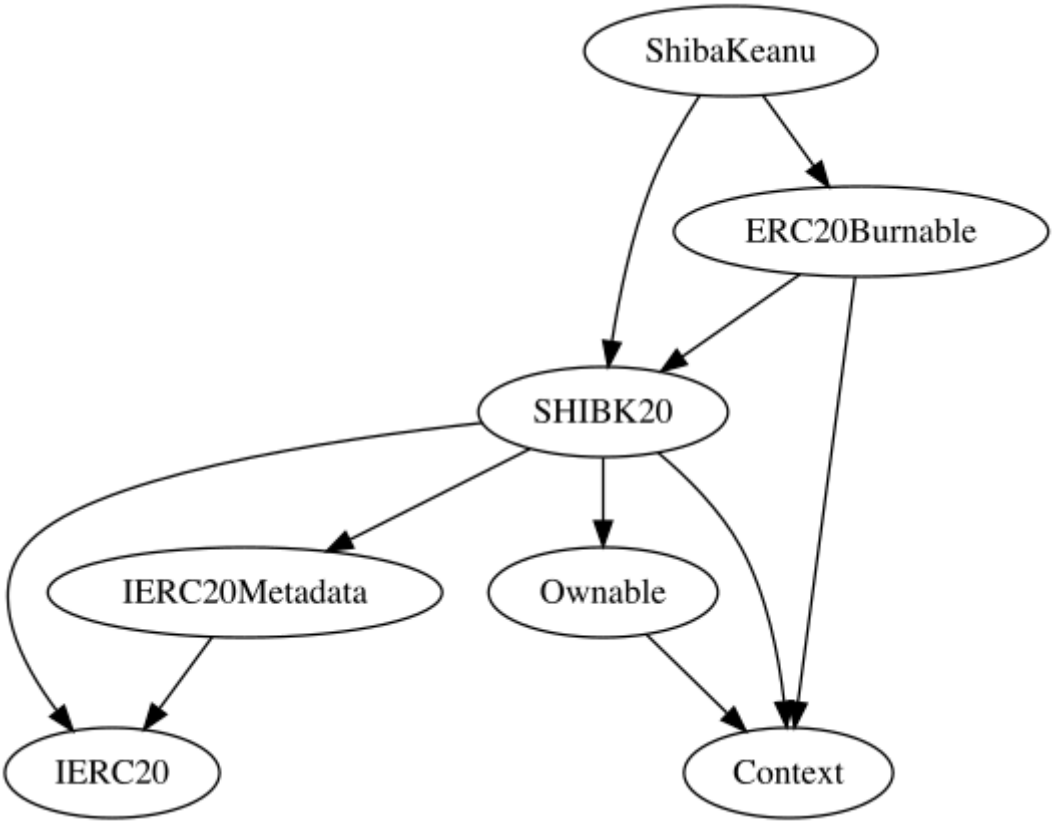
Functions Analysis

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-

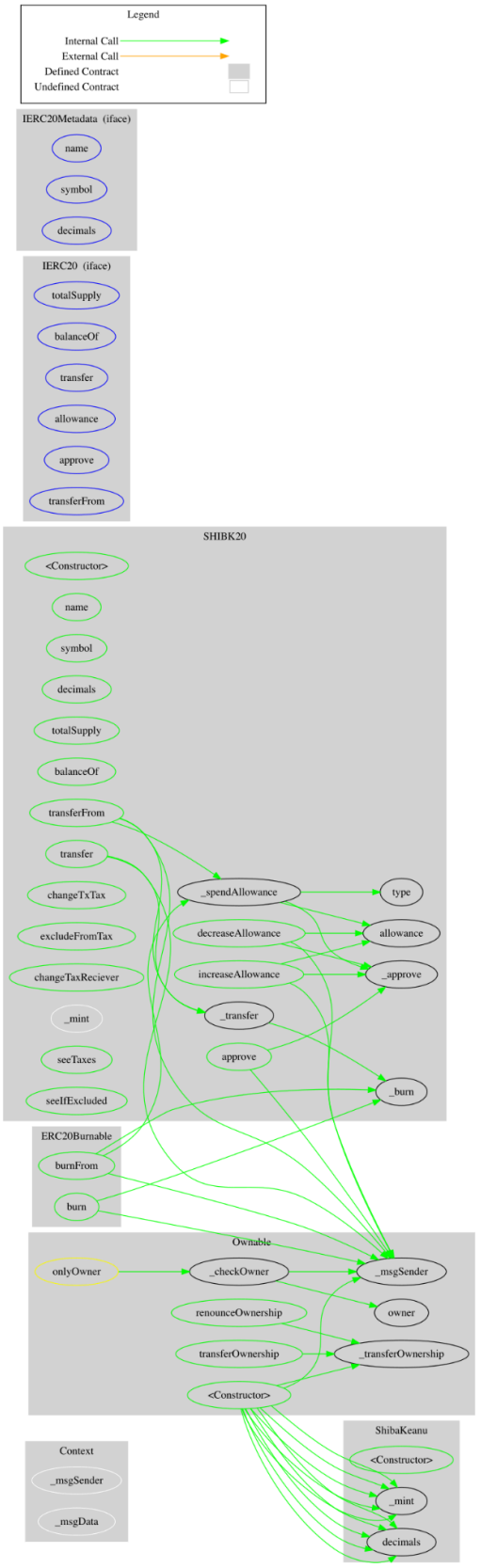
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
SHIBK20	Implementation	Context, IERC20, IERC20Metadata, Ownable		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	changeTxTax	Public	✓	onlyOwner
	excludeFromTax	Public	✓	onlyOwner

	changeTaxReciever	Public	✓	onlyOwner
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	seeTaxes	Public		-
	seeIfExcluded	Public		-
ERC20Burnable	Implementation	Context, SHIBK20		
	burn	Public	✓	-
	burnFrom	Public	✓	-
ShibaKeanu	Implementation	SHIBK20, ERC20Burnable		
		Public	✓	SHIBK20

Inheritance Graph



Flow Graph


Legend
Internal Call
External Call
Defined Contract
Undefined Contract
IERC20Metadata (iface)
name
symbol
decimals
IERC20 (iface)
totalSupply
balanceOf
transfer
allowance
approve
transferFrom
SHIBK20
<Constructor>
name
symbol
decimals
totalSupply
balanceOf
transferFrom
transfer
changeTxTax
excludeFromTax
changeTaxReciever
_mint
seeTaxes
seeIfExcluded
_spendAllowance
decreaseAllowance
increaseAllowance
_transfer
approve
type
allowance
_approve
_burn
ERC20Burnable
burnFrom
burn
Ownable
onlyOwner
_checkOwner
renounceOwnership
transferOwnership
<Constructor>
_msgSender
owner
_transferOwnership
Context
_msgSender
_msgData
ShibaKeanu
<Constructor>
_mint
decimals

Summary

ShibaKeanu contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. ShibaKeanu 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. There is also a limit of max 2% fees.

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The Cyberscope team

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