Cyberscope

Audit Report

BrickInfinity

January 2024

Network	BSC
Address	0x79a2d671e155282d991692fb2d4f257766278c35
Audited by	© cyberscope

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

Table of Contents

Review

Contract Name	BrickInfinity
Compiler Version	v0.8.19+commit.7dd6d404
Optimization	200 runs
Explorer	https://bscscan.com/address/0x79a2d671e155282d991692fb2d4f257766278c35
Address	0x79a2d671e155282d991692fb2d4f257766278c35
Network	BSC
Symbol	Brick
Decimals	18
Total Supply	1,000,000,000
Badge Eligibility	Yes

Audit Updates

Initial Audit	14 Apr 2023 https://github.com/cyberscope-io/audits/blob/main/1-brick/v1/audit.pdf
Corrected Phase 2	16 Apr 2023 https://github.com/cyberscope-io/audits/blob/main/1-brick/v2/audit.pdf
Corrected Phase 3	12 Jan 2024

Source Files

Filename	SHA256
BrickInfinity.sol	5844432d456ca5b80775e6200c6adcc3a264dd922d8008ef03640be2cf65682c

Overview

The contract implements the ERC20 protocol enriched with liquified functionality. There are two segments in the smart contract that may produce unnecessary behavior.

1. There is no fee exclusion. Many decentralized applications like launchpads, lockers, etc, require the transfers to be excluded from fees. As a result, the token will not be able to operate with them.
2. The contract assumes that the liquidity has been added if it identifies a transfer to the pair address. If a malicious user sends 1 token to the pair address, then the contract will wrongly assume that the liquidity has been added.

Findings Breakdown

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

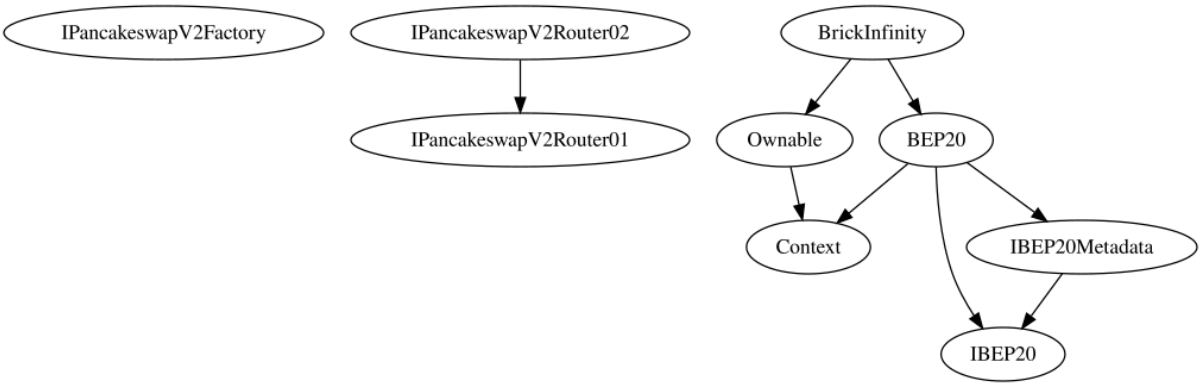
Functions Analysis

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
IPancakeswapV2Factory	Interface			
	createPair	External	✓	-
IPancakeswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
IPancakeswapV2Router02	Interface	IPancakeswapV2Router01		
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
IBEP20	Interface			
	balanceOf	External		-
	totalSupply	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-

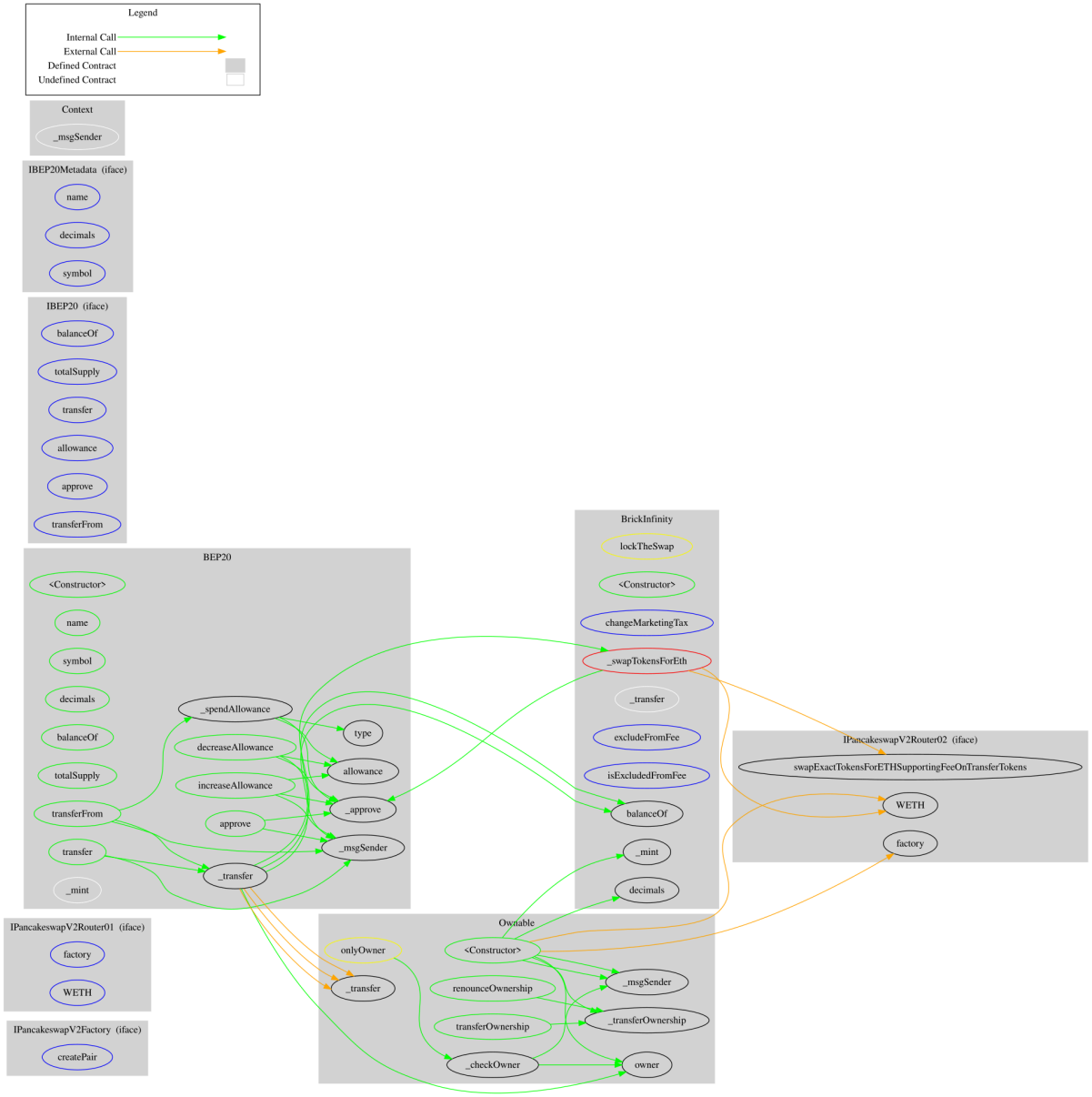
IBEP20Metadata	Interface	IBEP20		
	name	External		-
	decimals	External		-
	symbol	External		-
Context	Implementation			
	_msgSender	Internal		
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
BEP20	Implementation	Context, IBEP20, IBEP20Metadata		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-

	balanceOf	Public		-
	totalSupply	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
BrickInfinity	Implementation	BEP20, Ownable		
		Public	✓	BEP20
	changeMarketingTax	External	✓	onlyOwner
	_swapTokensForEth	Private	✓	lockTheSwap
	_transfer	Internal	✓	
	excludeFromFee	External	✓	onlyOwner
	isExcludedFromFee	External		-

Inheritance Graph



Flow Graph


Legend
Internal Call
External Call
Defined Contract
Undefined Contract
Context
_msgSender
IBEP20Metadata (iface)
name
decimals
symbol
IBEP20 (iface)
balanceOf
totalSupply
transfer
allowance
approve
transferFrom
BEP20
<Constructor>
name
symbol
decimals
balanceOf
totalSupply
transferFrom
transfer
_mint
_spendAllowance
decreaseAllowance
increaseAllowance
approve
_transfer
type
allowance
_approve
_msgSender
BrickInfinity
lockTheSwap
<Constructor>
changeMarketingTax
_swapTokensForEth
_transfer
excludeFromFee
isExcludedFromFee
balanceOf
_mint
decimals
IPancakeswapV2Router02 (iface)
swapExactTokensForETHSupportingFeeOnTransferTokens
WETH
factory
IPancakeswapV2Router01 (iface)
factory
WETH
IPancakeswapV2Factory (iface)
createPair
Ownable
onlyOwner
_transfer
<Constructor>
renounceOwnership
transferOwnership
_checkOwner
_msgSender
_transferOwnership
owner

Summary

BrickInfinity contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. BrickInfinity 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. The fees are fixed to 5%.

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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

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