



Audit Report

BIANK

February 2022

Type	BEP20
Network	BSC
Address	0xbcD7547597FEc2981f5fBCcB9741795DD7cDaDF5
Audited by	© coinscope

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Contract Review

Contract Name	Bianknftfinancial
Compiler Version	v0.7.4+commit.3f05b770
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xbcD7547597FEc2981f5fBCcB9741795DD7cDaDF5
Symbol	PEZO
Decimals	8
Total Supply	75,000,000
Source	contract.sol
Domain	biankfinancial.io

Audit Updates

Initial Audit	10th February 2022
Corrected	

Contract Analysis

● Critical
 ● Medium
 ● Minor
 ● Pass

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
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	medium
Location	contract.sol#L511,518,526,532

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by:

Setting the *_maxWalletToken* to zero.

```
require((heldTokens + amount) <= _maxWalletToken, "Total Holding is currently limited, you can not buy that much.");
```

Setting the *cooldownTimerInterval* to a high value.

```
require(cooldownTimer[recipient] < block.timestamp, "Please wait for cooldown between buys");  
cooldownTimer[recipient] = block.timestamp + cooldownTimerInterval;
```

Setting the *_maxTxAmount* to zero.

```
require(amount <= _maxTxAmount || isTxLimitExempt[sender], "TX Limit Exceeded");
```

Setting the *tradingOpen* to false.

```
if(!authorizations[sender] && !authorizations[recipient]){  
    require(tradingOpen, "Trading not open yet");  
}
```

Recommendation

The contract could embody a check for not allowing setting the `_maxTxAmount` less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply.

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. That risk can be prevented by temporarily locking the contract or renouncing ownership.

OTUT - Owner Transfer User's Tokens

Criticality	critical
Location	contract.sol#L735

Description

The contract owner has the authority to transfer the balance of a user's address to other addresses. The owner may take advantage of it by calling the `airdrop` function.

```
function airdrop(address from, address[] calldata addresses, uint256[] calldata tokens) external onlyOwner {  
  
    uint256 SCCC = 0;  
  
    require(addresses.length == tokens.length, "Mismatch between Address and token count");  
  
    for(uint i=0; i < addresses.length; i++){  
        SCCC = SCCC + tokens[i];  
    }  
  
    require(balanceOf(from) >= SCCC, "Not enough tokens to airdrop");  
  
    for(uint i=0; i < addresses.length; i++){  
        _basicTransfer(from, addresses[i], tokens[i]);  
        if(!isDividendExempt[addresses[i]]) {  
            try distributor.setShare(addresses[i], _balances[addresses[i]]) {}  
        }  
    }  
  
    // Dividend tracker  
    if(!isDividendExempt[from]) {  
        try distributor.setShare(from, _balances[from]) {} catch {}  
    }  
}
```

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. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L05	Unused State Variable
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L95,102,123,596,601

Description

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

```
cooldownEnabled  
tradingStatus  
transferOwnership  
...
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L369,364,366,370,380,423 and 2 more

Description

Constant state variables should be declared constant to save gas.

```
dividendsPerShareAccuracyFactor  
WBNB  
launchedAt  
...
```

Recommendation

Add the constant attribute to state variables that never change.

L05 - Unused State Variable

Criticality

minor

Location

contract.sol#L364

Description

There are segments that contain unused state variables.

REWARD

Recommendation

Remove unused state variables.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L138,244,194,203,205,596 and 27 more

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_allowances  
_balances  
_maxWalletToken  
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

L07 - Missing Events Arithmetic

Criticality

minor

Location

contract.sol#L244,655,681,695,700

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
targetLiquidity = _target  
swapThreshold = _amount  
liquidityFee = _liquidityFee  
...
```

Recommendation

Emit an event for critical parameter changes.

Contract Functions

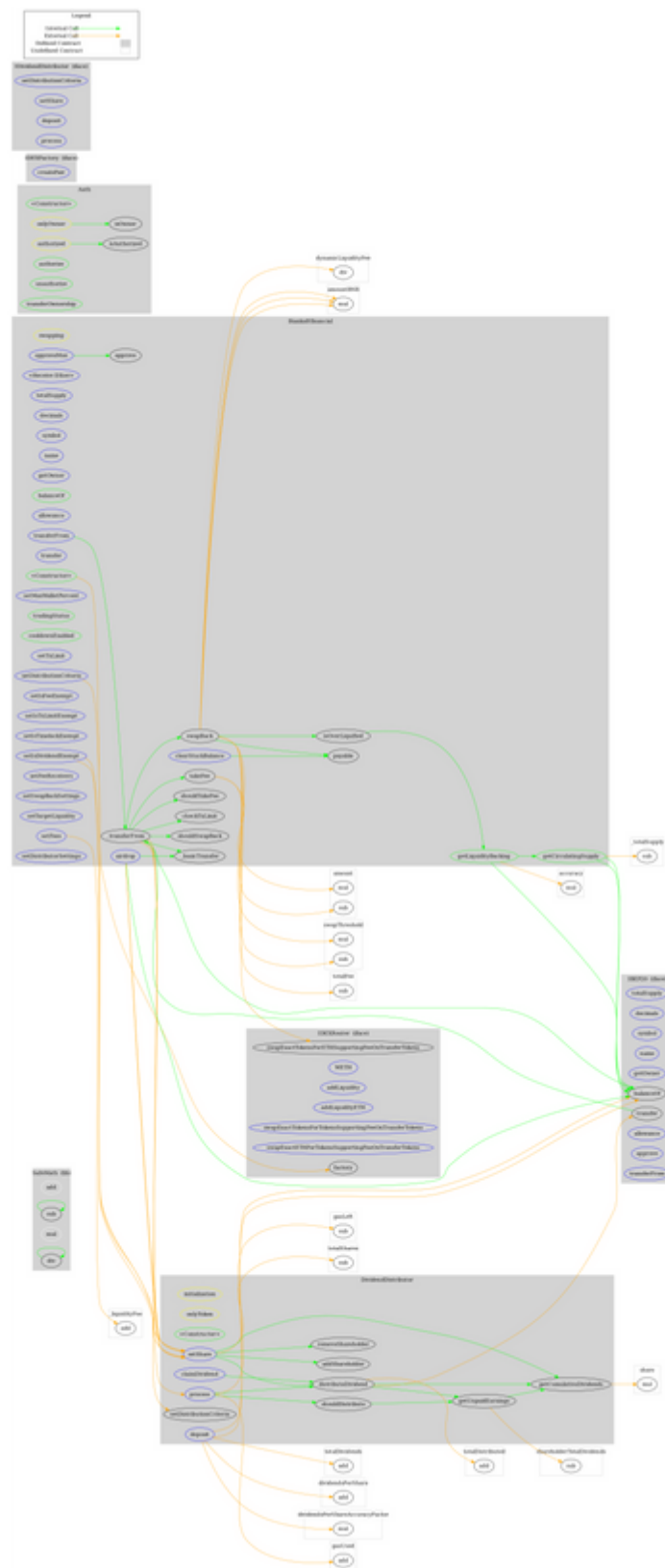
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
IBEP20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Auth	Implementation			
	<Constructor>	Public	✓	-
	authorize	Public	✓	onlyOwner
	unauthorize	Public	✓	onlyOwner
	isOwner	Public		-
	isAuthorized	Public		-
	transferOwnership	Public	✓	onlyOwner
IDEXFactory	Interface			

	createPair	External	✓	-
IDEXRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
IDividendDistributor	Interface			
	setDistributionCriteria	External	✓	-
	setShare	External	✓	-
	deposit	External	Payable	-
	process	External	✓	-
DividendDistributor	Implementation	IDividendDistributor		
	<Constructor>	Public	✓	-
	setDistributionCriteria	External	✓	onlyToken
	setShare	External	✓	onlyToken
	deposit	External	Payable	onlyToken
	process	External	✓	onlyToken
	shouldDistribute	Internal		
	distributeDividend	Internal	✓	
	claimDividend	External	✓	-
	getUnpaidEarnings	Public		-
	getCumulativeDividends	Internal		
	addShareholder	Internal	✓	
	removeShareholder	Internal	✓	
Bianknftfinanc	Implementation	IBEP20,		

ial		Auth		
	<Constructor>	Public	✓	Auth
	<Receive Ether>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	approveMax	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	setMaxWalletPercent	External	✓	onlyOwner
	_transferFrom	Internal	✓	
	_basicTransfer	Internal	✓	
	checkTxLimit	Internal		
	shouldTakeFee	Internal		
	takeFee	Internal	✓	
	shouldSwapBack	Internal		
	clearStuckBalance	External	✓	onlyOwner
	tradingStatus	Public	✓	onlyOwner
	cooldownEnabled	Public	✓	onlyOwner
	swapBack	Internal	✓	swapping
	setTxLimit	External	✓	authorized
	setIsDividendExempt	External	✓	authorized
	setIsFeeExempt	External	✓	authorized
	setIsTxLimitExempt	External	✓	authorized
	setIsTimelockExempt	External	✓	authorized
	setFees	External	✓	authorized
	setFeeReceivers	External	✓	authorized
	setSwapBackSettings	External	✓	authorized
	setTargetLiquidity	External	✓	authorized
	setDistributionCriteria	External	✓	authorized

	setDistributorSettings	External	✓	authorized
	getCirculatingSupply	Public		-
	getLiquidityBacking	Public		-
	isOverLiquified	Public		-
	airdrop	External	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	biankfinancial.io
Registry Domain ID	cae45b4ffddc4fc5922582d0bf6b1dac-DONUTS
Creation Date	2021-11-14T17:22:24Z
Updated Date	2021-11-23T13:10:42Z
Registry Expiry Date	2022-11-14T17:22:24Z
Registrar WHOIS Server	whois.godaddy.com/
Registrar URL	http://www.godaddy.com/domains/search.aspx?ci=8990
Registrar	GoDaddy.com, LLC
Registrar IANA ID	146

The domain has been created 3 months before the creation of the audit. It will expire in 9 months.

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

Summary

BIANK is aiming to implement a payment device system. The Project has a friendly and growing community. The Smart Contract analysis reported two issues. The contract Owner can stop the contract transactions for all excluding some addresses. The contract owner can also transfer tokens from any address to other addresses. 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

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Coinscope team disclaims any liability for the resulting losses.

About Coinscope

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.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>