Audit Report

Dinko DeFi Dating

January 2022

Type	BEP20
Network	BSC
Address	0xfb32b987dd069361e3f54d5c09c9bfbc63fa0cef
Audited by	© coinscope

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Contract Review

Contract Name	DinkoRevised
Compiler Version	v0.8.10+commit.fc410830
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xfb32b987dd069361e3f54d5c09c9bfbc63fa0cef
Symbol	DINKO
Decimals	9
Total Supply	100,000,000,000,000
Source	contract.sol
Domain	dinkodating.com

Audit Updates

Initial Audit	13th January 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

Contract Diagnostics

● Critical ● Medium ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination
●	L11	Unnecessary Boolean equality
●	L07	Missing Events Arithmetic

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L1101,L685,L655 and 20 more

Description

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

```
isExcludedFromFee
excludeFromReward
reflectionFromToken
...
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L429,L411,L417 and 3 more

Description

Constant state variables should be declared constant to save gas.

```
marketingDivisor
_tTotal
_symbol
...
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L433,L430,L425 and 9 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.

```
_maxTxAmount
DinkoAppDivisor
_marketingDinkoAppFee
...
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L128,L123,L823 and 9 more

Description

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

```
mod
swapETHForTokens
buyBackTokens
...
```

Recommendation

Remove unused functions.

L11 - Unnecessary Boolean equality

Criticality	minor
Location	contract.sol#L1189,L723

Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
require(bool,string)(antiSnipe == true,Already disabled.)
require(bool,string)(canTransferBeforeTrade[from] == true,Trading is not enabled
yet.)
```

Recommendation

Remove the equality to the boolean constant.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L1129,L1113

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.

```
tokensToBurnAfterSwap = _tokensToBurnAfterSwap
_maxTxAmount = maxTxAmount * 10 ** 9
```

Recommendation

Emit an event for critical parameter changes.

Contract Functions

Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	

	_functionCallWithValue	Private	✓	
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	getUnlockTime	Public		-
	getTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Router02	Interface			
	factory	External		-
	WETH	External		-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
DinkoRevised	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-

	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	manualSend	External	✓	onlyOwner
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	minimumTokensBeforeSwapAmount	Public		-
	tokensToBurnAfterSwapAmount	Public		-
	deliver	Public	✓	-
	reflectionFromToken	Public		-
	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_approve	Private	✓	
	_transfer	Private	✓	
	swapTokens	Private	✓	lockTheSwap
	buyBackTokens	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	swapETHForTokens	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	_transferBothExcluded	Private	✓	
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		

	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiqMarketing	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	setFeeExempt	External	✓	onlyOwner
	setMaxTxAmount	External	✓	onlyOwner
	setMaxTxAmountExempt	External	✓	onlyOwner
	setNumTokensSellToAddToLiquidityAndBurn	External	✓	onlyOwner
	setMarketingAndGameAddress	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
	prepareForPreSale	External	✓	onlyOwner
	initSalesAndLiquidity	External	✓	onlyOwner
	setddressesToTransferBeforeTrade	External	✓	onlyOwner
	enabledTrading	External	✓	onlyOwner
	revertAntisnipe	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-

Contract Flow
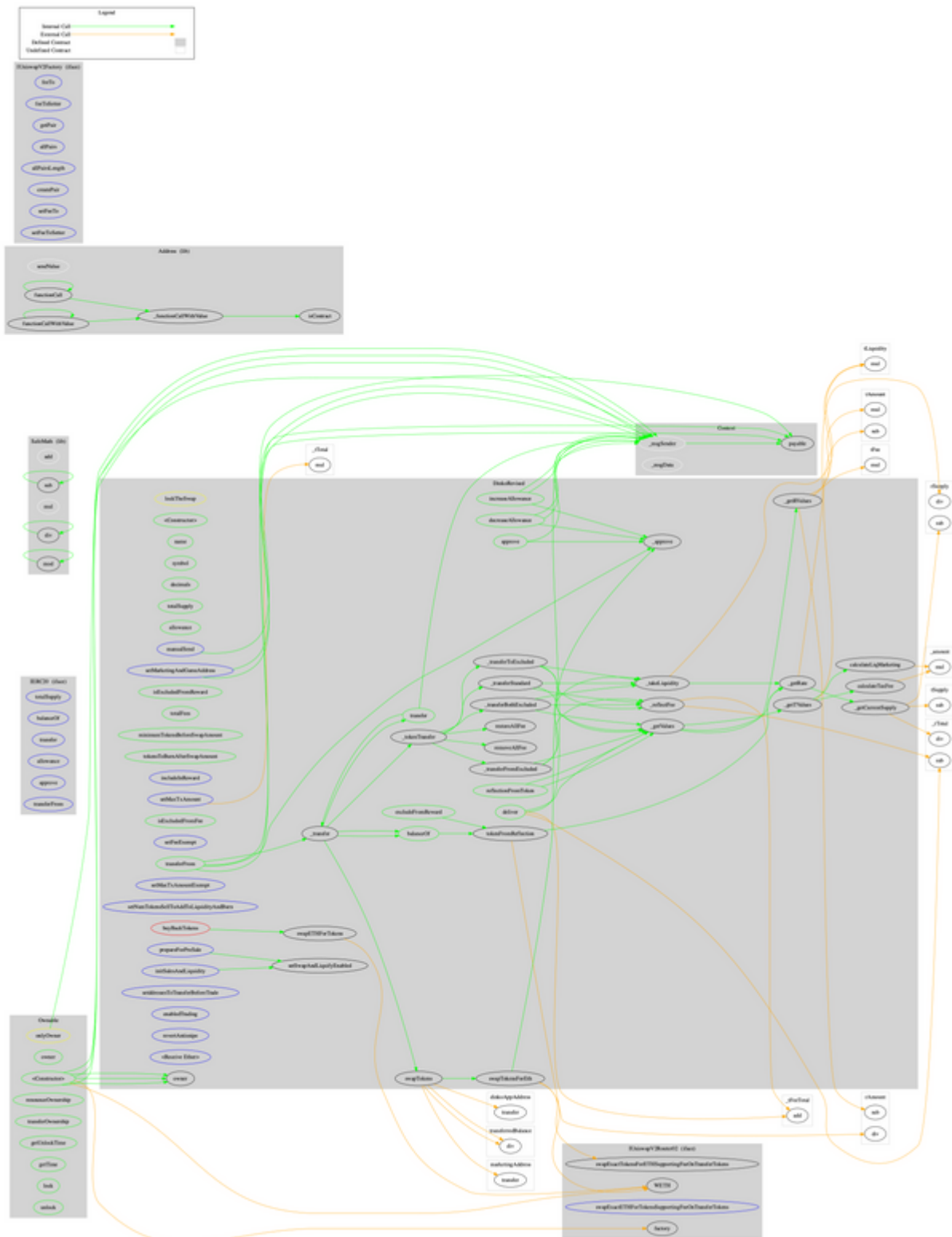
Domain Info

Domain Name	dinkodating.com
Registry Domain ID	7263507
Creation Date	2021-12-20T17:47:53Z
Updated Date	2021-12-21T04:47:38Z
Registry Expiry Date	
Registrar WHOIS Server	whois.hostmonster.com
Registrar URL	http://www.hostmonster.com/
Registrar	FastDomain Inc.
Registrar IANA ID	1154

The domain has been created 24 days before the creation of the audit.

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

Summary

The Dinko Dating token is aiming to build a new concept in dating and matchmaking for all genders. The token 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. There are also fixed values in the transaction fees.

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The Coinscope.co team

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