



# Audit Report

## **LudoP2E**

February 2022

Type	BEP20
Network	BSC
Address	0x110Cd52d4B7AC727a7b66c8c664398985C8247F0
Audited by	© coinscope

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## Contract Review

<b>Contract Name</b>	LudoP2E
<b>Compiler Version</b>	v0.8.11+commit.d7f03943
<b>Optimization</b>	200 runs
<b>Licence</b>	Unlicense
<b>Explorer</b>	<a href="https://bscscan.com/token/0x110Cd52d4B7AC727a7b66c8c664398985C8247F0">https://bscscan.com/token/0x110Cd52d4B7AC727a7b66c8c664398985C8247F0</a>
<b>Symbol</b>	\$LudoP2E
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000
<b>Source</b>	contract.sol
<b>Domain</b>	

## Audit Updates

<b>Initial Audit</b>	17th February 2022
<b>Corrected</b>	

# 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
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L533,960,1025,1029,924

### 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.

```
marketingWallet  
Account  
MarketingFee  
LiquidityFee  
WETH
```

### 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#L960

### 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.

```
liquidityFee = LiquidityFee
```

### Recommendation

Emit an event for critical parameter changes.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>ERC20</b>	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-

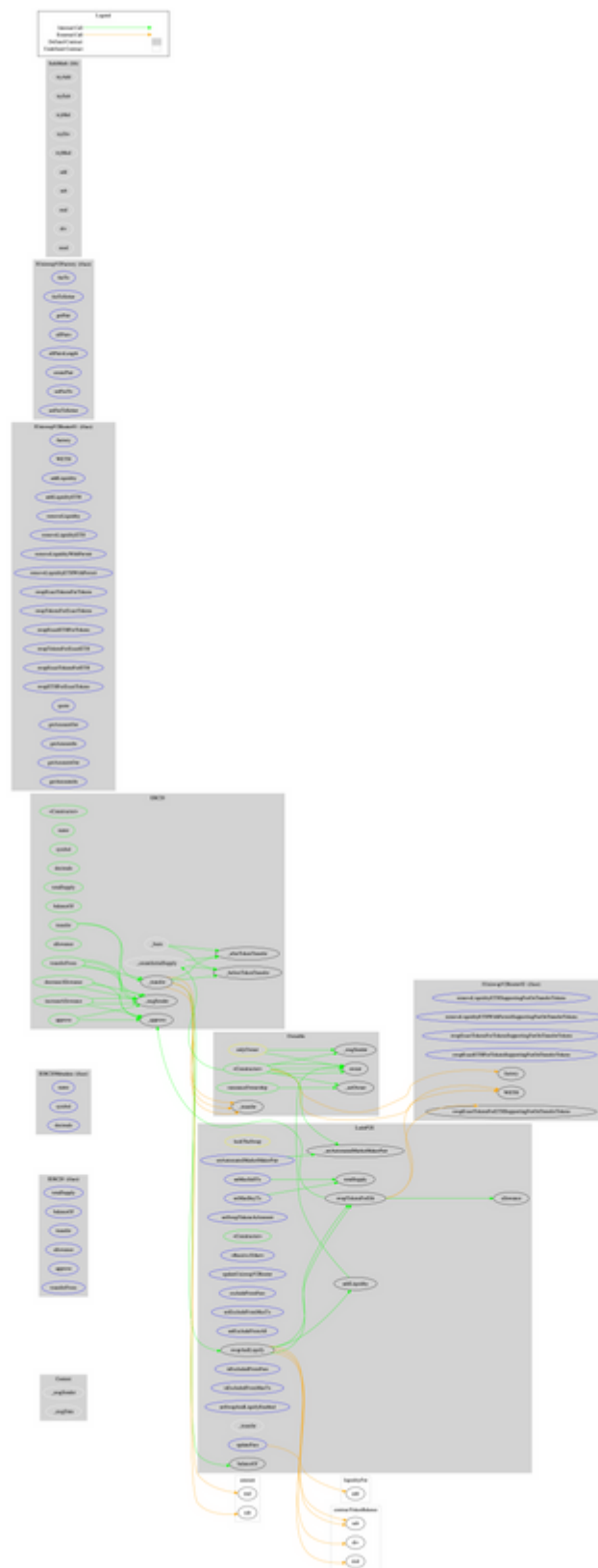


	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_createInitialSupply	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
<b>IUniswapV2Router01</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-

	getAmountsOut	External		-
	getAmountsIn	External		-
<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
<b>SafeMath</b>	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		

	sub	Internal		
	div	Internal		
	mod	Internal		
<b>LudoP2E</b>	Implementation	ERC20, Ownable		
	updateFees	External	✓	onlyOwner
	setMaxSellTx	External	✓	onlyOwner
	setMaxBuyTx	External	✓	onlyOwner
	setSwapTokensAtAmount	External	✓	onlyOwner
	<Constructor>	Public	✓	ERC20
	<Receive Ether>	External	Payable	-
	updateUniswapV2Router	External	✓	onlyOwner
	excludeFromFees	External	✓	onlyOwner
	setExcludeFromMaxTx	External	✓	onlyOwner
	setExcludeFromAll	External	✓	onlyOwner
	setAutomatedMarketMakerPair	External	✓	onlyOwner
	_setAutomatedMarketMakerPair	Private	✓	
	isExcludedFromFees	External		-
	isExcludedFromMaxTx	External		-
	setSwapAndLiquifyEnabled	External	✓	onlyOwner
	_transfer	Internal	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	ludop2e.com
<b>Registry Domain ID</b>	2667637250_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-01-12T00:00:00Z
<b>Updated Date</b>	2022-01-17T09:39:18Z
<b>Registry Expiry Date</b>	
<b>Registrar WHOIS Server</b>	whois.syrahost.com
<b>Registrar URL</b>	<a href="http://www.crazydomains.com">http://www.crazydomains.com</a>
<b>Registrar</b>	Dreamscape Networks International Pte Ltd
<b>Registrar IANA ID</b>	1291

The domain has been created 30 days before the creation of the audit.

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

# Summary

LudoP2E is aiming to build an online, multiplayer play-to-earn board game. The Smart Contract analysis reported no compiler error or critical issues. In fact there are not any functions that can be abused by the owner to interrupt the user's transactions.

# Disclaimer

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## 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>