



SMART CONTRACT SECURITY AUDIT

LTEX

January, 2022

Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;

2. Manual analysis of smart contracts:

- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 18.01.2022

Contract Name: **Ltradex**

Deployed address: **0xBcB3ac7a3ceB2d0C5E162A03901d6D7bb8602912**

Total Supply: **50,000,000,000,000**

Token Tracker: **LTEX**

Decimals: **18**

Token holders: **2114**

Transactions count: **20320**

Top 100 holders dominance: **99.90%**

Audit Details



Project Name: **Ltradex**

Language: **Solidity**

Compiler Version: **v0.8.4**

Blockchain: **BSC**

Social Profiles

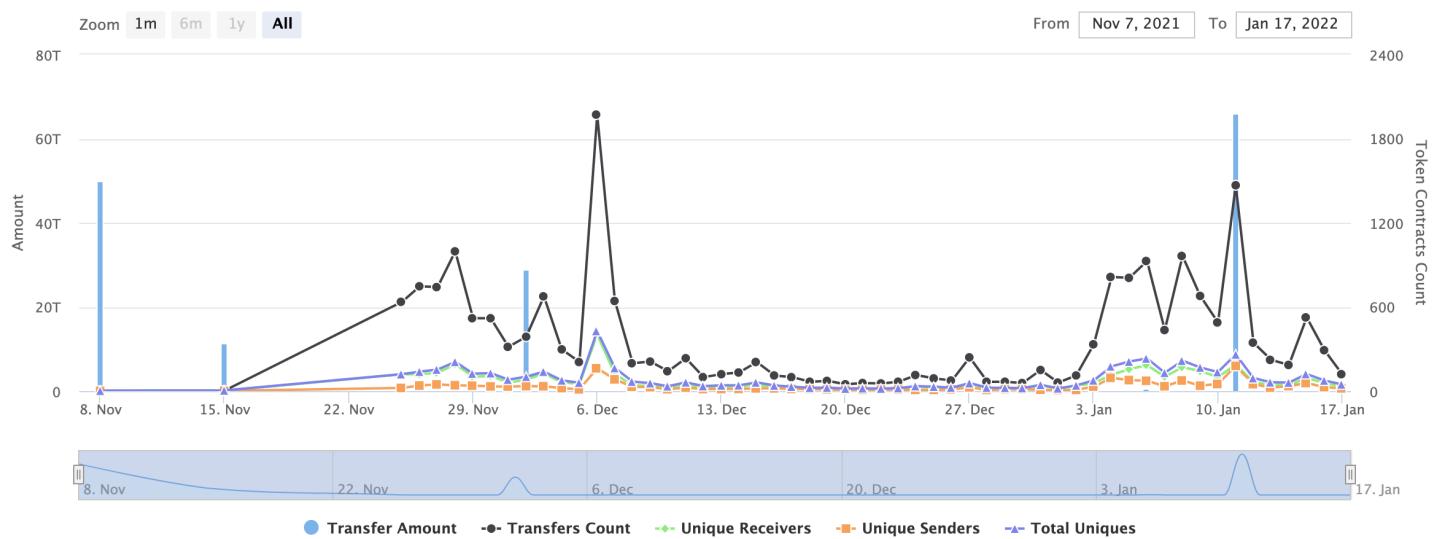
Project Website: <https://ltradex.io/>

Project Twitter: <https://twitter.com/LtexToken>

Project Telegram: <https://t.me/LTEXCommunityWorldwide>

Project Facebook: <https://www.facebook.com/ltex.trade/>

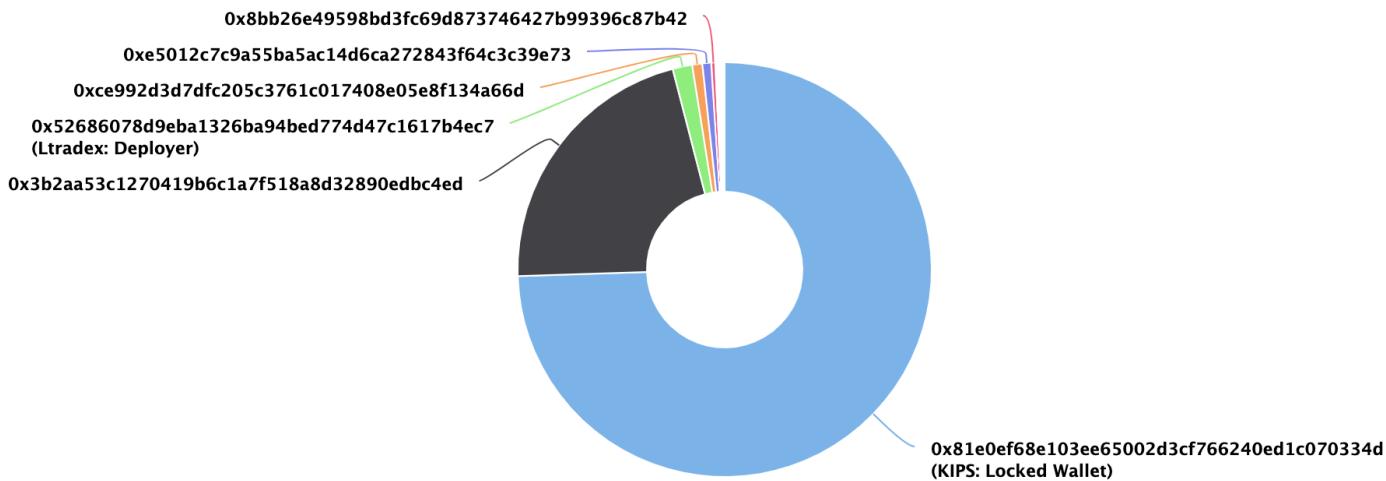
Contract Analytics



KYC Passed

The CEO of LTEX project have passed KYC verification on behalf of Soken team. All personal data received from audited company will remain private until any fraudulent activity will happen.

LTEX Token Distribution



LTEX Top Holders

Rank	Address	Quantity (Token)	Percentage
1	0x81e0ef68e103ee65002d3cf766240ed1c070334d (KIPS: Locked Wallet)	37,254,893,099,596.904229628362305303	74.5098%
2	0x3b2aa53c1270419b6c1a7f518a8d32890edbc4ed	10,730,414,934,923.561239619144555479	21.4608%
3	Ltradex: Deployer	764,396,152,399.956380906447366427	1.5288%
4	0xce992d3d7dfc205c3761c017408e05e8f134a66d	387,000,000,000	0.7740%
5	0xe5012c7c9a55ba5ac14d6ca272843f64c3c39e73	351,475,938,910.691402750667977734	0.7030%
6	0x8bb26e49598bd3fc69d873746427b99396c87b42	152,122,359,603.925412521030167902	0.3042%
7	0x6eeb7c37dd34ccf19708738988f44120266380d1	51,506,047,529.991839695331118654	0.1030%
8	0x Null Address: 0x000...000	37,369,531,809.395433506465188194	0.0747%
9	0xcf26dfab084872d94793b8e451c557cca589c62	21,483,926,078.895156427344748489	0.0430%
10	0x4355a71716884b57917a7f6411b3bd8d68cdcaa56	21,400,297,478.054719257639787384	0.0428%

Swap Analysis

- ✓ Token is sellable (not a honeypot) at this time
- ✓ Buy fee is <= 10% (6.4%)
- ✓ Sell fee is <= 10% (6.4%)

Contract Analysis

- ✓ Verified contract source
- ✗ No prior similar token contracts
- ✓ Source does not contain a proxy contract
- ✓ Source does not contain a pausable contract
- ✓ Ownership renounced or source does not contain an owner contract.

Holder Analysis

- ✓ Owner/creator wallet contains less than 10% of token supply (< 0.01%)
- ✓ Tokens locked (74.51%)

Contract Analysis

- ✓ Adequate liquidity present (234.84 BNB)
- ✓ At least 95% of liquidity burned/locked (99.54%)
- ✓ Owner/creator wallet contains less than 5% of liquidity

Project Website Overview

The screenshot shows the LTEX project website. At the top left is the soken logo. The main header features a golden gear icon and the text "LTEX". Below the header, there is a circular graphic containing binary code (0s and 1s) and a brain-like shape. A text block states: "LTEX is the first token in the world that proves its existence officially, publicly and legally by announcing their intentions of opening representing offices all over the globe". Two buttons are present: "White Paper" and "Play Video!". At the top right, there is a navigation bar with links to "Home", "About Us", and "Contact Us". The background has a futuristic, circuit-board-like pattern.

✓ JavaScript errors hasn't been found.
✓ Malware pop-up windows hasn't been detected.
✓ No issues with loading elements, code, or stylesheets.

Project Website SSL Certification

The screenshot displays an SSL certificate for the domain **itradex.io**. The certificate is issued by Go Daddy Secure Certificate Authority - G2 and is valid until Tuesday, December 27, 2022, at 7:04:17 AM Eastern Standard Time. A green checkmark indicates that the certificate is valid. The word "Trust" is visible at the bottom left.

Project Website Performance Audit

<https://ltradex.io/>



Performance

Notes are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



CS

[Expand view](#)

First Contentful Paint

2.6 s

Speed Index

5.4 s

Largest Contentful Paint

6.8 s

Time to Interactive

5.1 s

Total Blocking Time

200 ms

Cumulative Layout Shift

0

Project Website Optimization for Mobile

<https://ltradex.io/>



Core Web Vitals Assessment: Failed

Computed from the [Core Web Vitals](#) metrics over the latest 28-day collection period.

[Learn more](#)

[Expand view](#)

▲ First Contentful Paint (FCP)



● First Input Delay (FID)



▲ Largest Contentful Paint (LCP)



● Cumulative Layout Shift (CLS)



[Latest 28-day collection period](#)

[Full visit durations](#)

[Various mobile devices](#)

[Various network connections](#)

[Many samples \(Chrome UX Report\)](#)

[All Chrome versions](#)

Whitepaper of the project

The whitepaper of LTEX project has been verified on behalf of Soken team.

Whitepaper link: https://ltradex.io/?page_id=1363



Contract Function Details

+ Contract Source Code

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom
- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod
- [Int] _msgSender
- [Int] _msgData
- [Int] isContract
- [Int] sendValue
- [Int] functionCall
- [Int] functionCall
- [Int] functionCallWithValue
- [Int] functionCallWithValue
- [Prv] _functionCallWithValue
- [Pub] owner
- [Pub] renounceOwnership
- [Pub] transferOwnership
- [Pub] lock
- [Pub] unlock
- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair
- [Ext] setFeeTo
- [Ext] setFeeToSetter
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance

- [Ext] approve
- [Ext] transfer
- [Ext] transferFrom
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] mint
- [Ext] burn
- [Ext] swap
- [Ext] skim
- [Ext] sync
- [Ext] initialize
- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity
- [Ext] addLiquidityETH
- [Ext] removeLiquidity
- [Ext] removeLiquidityETH
- [Ext] removeLiquidityWithPermit
- [Ext] removeLiquidityETHWithPermit
- [Ext] swapExactTokensForTokens
- [Ext] swapTokensForExactTokens
- [Ext] swapExactETHForTokens
- [Ext] swapTokensForExactETH
- [Ext] swapExactTokensForETH
- [Ext] swapETHForExactTokens
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens

- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Pub] isExcludedFromReward
- [Pub] totalFees
- [Ext] setTaxFeePercent
- [Ext] setBurnFeePercent
- [Pub] deliver
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward
- [Ext] includeInReward
- [Prv] _transferBothExcluded
- [Prv] _reflectFee
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] _takeLiquidity
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee
- [Prv] restoreAllFee
- [Pub] isExcludedFromFee
- [Prv] _approve
- [Prv] _transfer
- [Prv] swapAndLiquify
- [Prv] swapTokensForEth
- [Prv] addLiquidity
- [Prv] _tokenTransfer
- [Prv] _transferStandard
- [Prv] _transferToExcluded
- [Prv] _transferFromExcluded
- [Pub] excludeFromFee
- [Pub] includeInFee
- [Ext] enableAllFees

- [Ext] disableAllFees
- [Ext] setMaxTxAmount
- [Ext] setMaxTxPercent
- [Pub] setSwapAndLiquifyEnabled

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Security Issues

1) Volatile Code:

The return values of functions

`swapExactTokensForETHSupportingFeeOnTransferTokens` and

`addLiquidityETH` are not properly handled.

Recommendation:

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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