



SMART CONTRACT SECURITY AUDIT

LAST Token

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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 of the project's smart contract.

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.

Basic Security Recommendation

Unlike hardware and paper wallets, hot wallets are connected to the internet and store private keys online, which exposes them to greater risk. If a company or an individual holds significant amounts of cryptocurrency in a hot wallet, they should consider using MultiSig addresses. Wallet security is enhanced when private keys are stored in different locations and are not controlled by a single entity.

More info: <https://blog.soken.io/how-to-gnosis-multisig-1c6c0860586f>

Token Contract Details for 21.03.2023

Contract Name: **LASTToken**

Deployed address: **0x8c07F3FE14917a4048Ad175ca2832dC8de504334**

Total Supply: **25,000,000**

Token Tracker: **LAST**

Decimals: **18**

Token holders: **1**

Transactions count: **2**

Top 100 holders dominance: **100.00%**

Audit Details



Project Name: **LAST Token**

Language: **Solidity**

Compiler Version: **v0.8.19**

Blockchain: **Ethereum**

Social Profiles

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

Contract Function Details

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Int] _msgSender
- [Int] _msgData
- [Pub] owner
- [Pub] renounceOwnership
- [Pub] transferOwnership
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Int] _transfer
- [Int] _mint
- [Prv] mint
- [Int] _burn
- [Prv] burn
- [Int] _approve
- [Int] _beforeTokenTransfer

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 Compiler 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) Presence of Overpowered Role: Informational.

L171-184, L439-441, L466-468

The overpowered owner (i.e., the person who has too much power) is a project design where the contract is tightly coupled to their owner (or owners); only they can manually invoke critical functions. Due to the fact that this function is only accessible from a single address, the system is heavily dependent on the address of the owner. In this case, there are scenarios that may lead to undesirable consequences for investors, e.g., if the private key of this address is compromised, then an attacker can take control of the contract.

Recommendation:

We recommend designing contracts in a trust-less manner. For instance, this functionality can be implemented in the contract's constructor.

Another option is to use a MultiSig wallet for this address. For systems that are provisioned for a single user, you can use [Ownable.sol]. For systems that require provisioning users in a group, you can use [@openzeppelin/Roles.sol] or [@hq20/Whitelist.sol].

Conclusion for project owner

Informational issues exist within smart contracts.

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

SECURITY REPORT FOR COMMUNITY

LAST Token



Whitepaper of the project

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

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Overview

The LAST token is a utility token that provides users of the LastChain ecosystem with access to a range of services and features. The LastChain blockchain was developed to provide users with a transparent, efficient, and comfortable web3 experience. Our aim is to break down the barriers that hold people back in the web3 space and to provide an environment that is easy to use, efficient, and cost-effective.

The world of cryptocurrency and blockchain technology is rapidly evolving, and it is clear that the advantages of this emerging field are numerous. However, there are still several barriers to entry, such as high gas fees, complicated user interfaces, and a lack of transparency. At LAST, we believe that these issues can be addressed by providing users with a comfortable, intuitive, and efficient web3 experience. Our mission is to create a blockchain ecosystem that is accessible to everyone, enabling users to transact with ease and comfort across the web3 space.

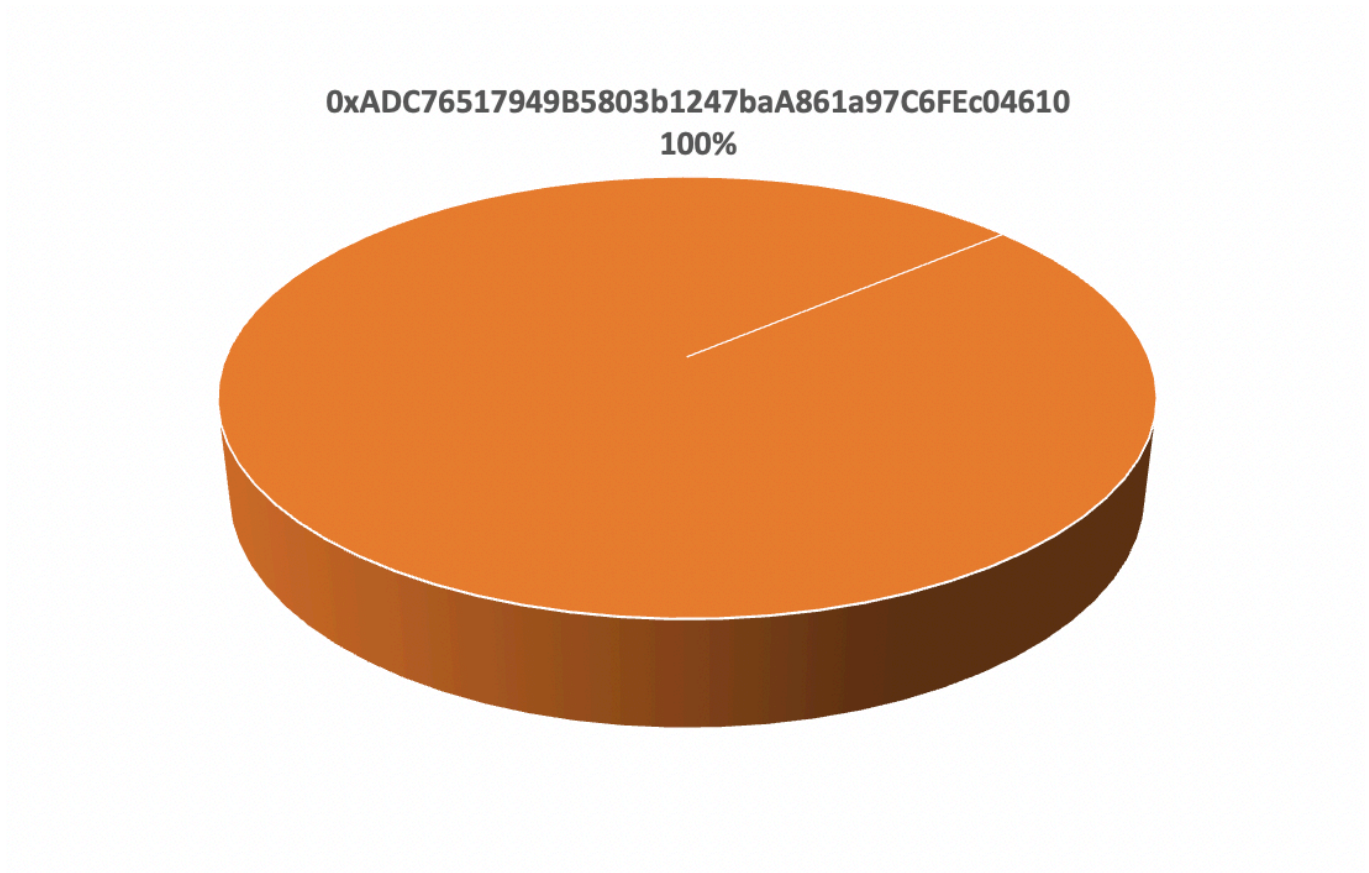
We started on the Ethereum network as an ERC-20 token, but our goal is to eventually migrate to our own LastChain blockchain. Our blockchain is currently in development, and we look forward to launching it in the near future.

With the LAST token, users can pay for services on the LastChain platform, stake tokens, and participate in governance decisions. We believe that the LAST token has the potential to become a widely used cryptocurrency, enabling users to transact with ease and comfort across the web3 space.

At LAST, we strive to make something with meaning, something that will be of great use and value to people.

Whitepaper link: <https://usdlast.gitbook.io/last/>

LAST Token Distribution.



LAST Top 10 Holders

Rank	Address	Quantity (Token)
1	0xADC76517949B5803b1247baA861a97C6FEc04610	25,000,000

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