



**AUDIT REPORT**

# **SecureWise**

**SMART CONTRACT AUDIT**



<https://github.com/securewise>



<https://t.me/securewise>



<https://securewise.info/>



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# Disclaimer

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# Overview

**Token Name:** L2EARN

**Methodology:** Automated Analysis, Manual Code Review

**Language:** Solidity

**Contract Address:** 0x690776b079F6c9Bc9D22aB5145b7257A40412A63

**ContractLink:** <https://bscscan.com/address/0x690776b079F6c9Bc9D22aB5145b7257A40412A63>

**Network:** Binance Smart Chain (BSC)

**Decimals:** 18

**Supply:** 1.000.000.000

**Website:** <https://l2earn.education/>

**Twitter:** [https://twitter.com/L2earn\\_ac](https://twitter.com/L2earn_ac)

**Telegram:** <https://t.me/L2EARNOfficial>

**Report Date:** September 4, 2022

# Quick Result

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

## Owner Privileges

There is no owner privileges



**L2EARN** has succesfully **PASSED** the smart contract audit

# Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

## Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

## Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.



## Risk Classification

















































**High:** Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

**Medium:** Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.























































**Low:** Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

# Automated Analysis

Symbol	Meaning
	Function can modify state
	Function is payable

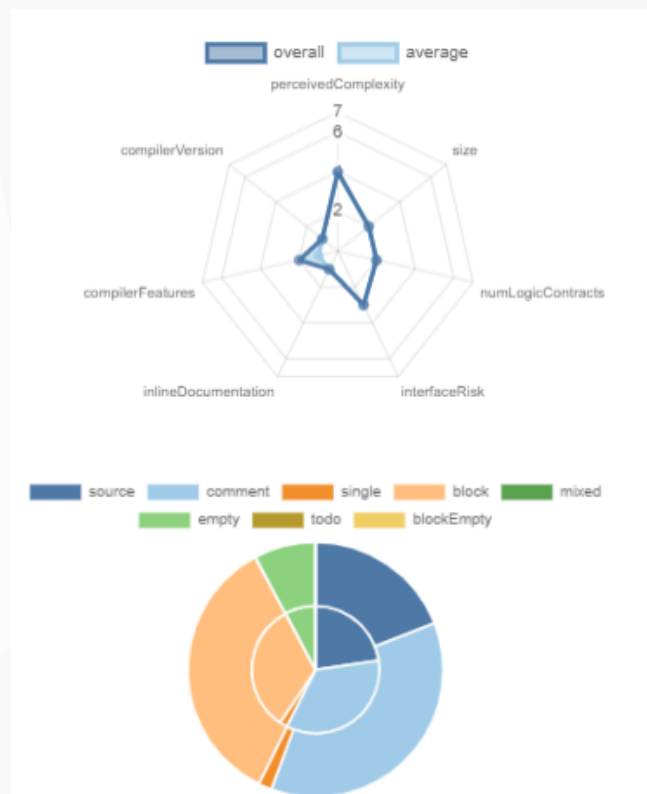
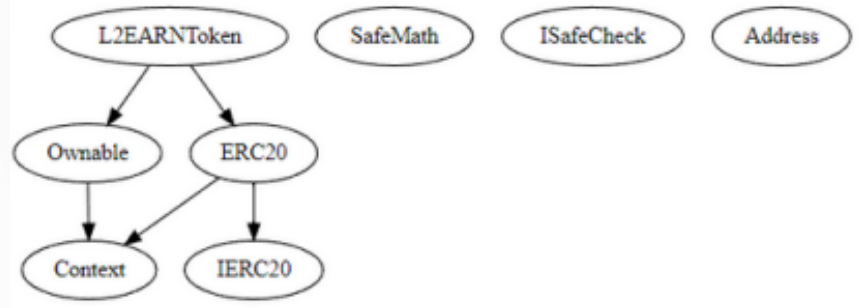
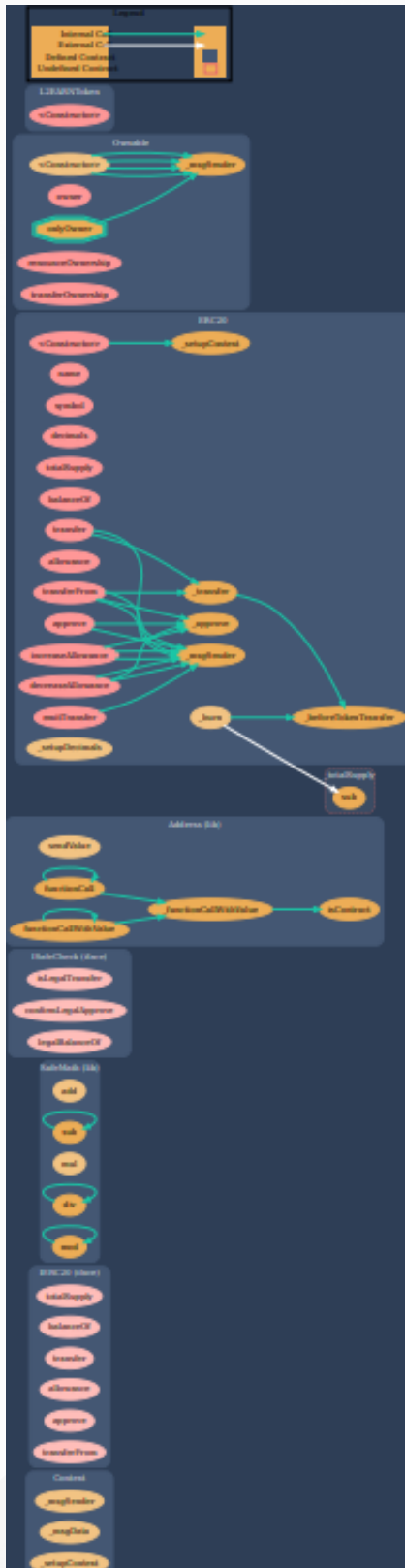
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
L	_setupContext	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
SafeMath	Library			
L	add	Internal 		
L	sub	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	mod	Internal 		
ISafeCheck	Interface			
L	isLegalTransfer	External 		NO 
L	confirmLegalApprove	External 		NO 
L	legalBalanceOf	External 		NO 
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithValue	Internal 		
L	functionCallWithValue	Internal 		
L	_functionCallWithValue	Private 		

# Automated Analysis



ERC20	Implementation	Context, IERC20		
L		Public 		NO 
L	name	Public 		NO 
L	symbol	Public 		NO 
L	decimals	Public 		NO 
L	totalSupply	Public 		NO 
L	balanceOf	Public 		NO 
L	transfer	Public 		NO 
L	allowance	Public 		NO 
L	approve	Public 		NO 
L	transferFrom	Public 		NO 
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	_transfer	Internal 		
L	emitTransfer	Public 		NO 
L	_burn	Internal 		
L	_approve	Internal 		
L	_setupDecimals	Internal 		
L	_beforeTokenTransfer	Internal 		
Ownable	Implementation	Context		
L		Internal 		
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L2EARNToken	Implementation	ERC20, Ownable		
L		Public 		NO 



# Inheritance Graph



# Contract Summary

Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
6	2	840	766	267	485	206	
6	2	840	766	267	485	206	

## Components

 Contracts	 Libraries	 Interfaces	 Abstract
3	2	2	1

## Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.





 Public	 Payable
26	0







External	Internal	Private	Pure	View
9	51	1	8	14



## StateVariables

Total	 Public
10	0

## Capabilities

Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts
<div>^0.6.0</div> <div>^0.6.2</div> <div>0.6.12</div>			<div>yes</div> <div>(2 asm blocks)</div>	

 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 ECRecover	 New/Create/Create2

 TryCatch	 Σ Unchecked

# Manual Review

**There is no issue**

## **Recommendation**

Standart ERC20 Token

## AUDIT REPORT

# SecureWise

## SMART CONTRACT AUDIT

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