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AUDIT COMPANY

Smart Contract Security Audit

TechRate

November, 2021

Audit Details

Audited project

IDEAS

Deployer address

0xdbf6530dac179acbafabdbdcf4014ef00f694f2e

Client contacts:

IDEAS team

Blockchain

Binance Smart Chain

Project website:

https://www.ideastoken.com

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by IDEAS to perform an audit of smart contracts:

https://bscscan.com/address/0x1C61a220a0F1DfC750D28188a97a6c7bF14E9851#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts Details

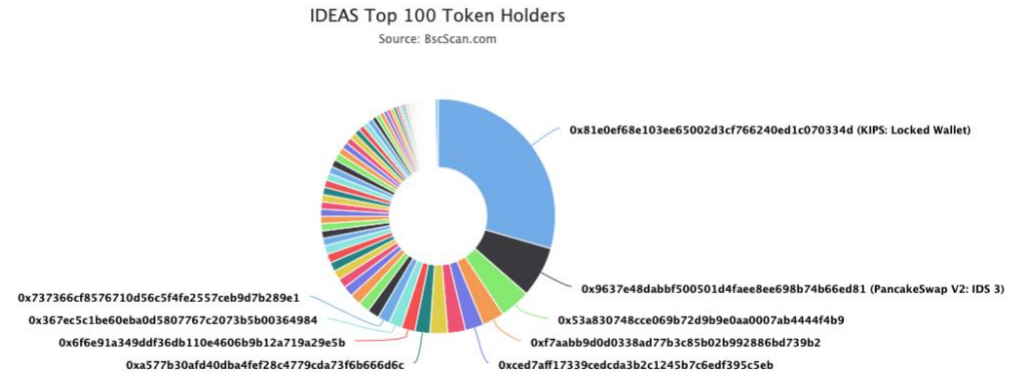
Token contract details for 09.11.2021

Contract name	IDEAS
Contract address	0x1C61a220a0F1DfC750D28188a97a6c7bF14E9851
Total supply	300,000,000
Token ticker	IDS
Decimals	18
Token holders	155
Transactions count	1,164
Top 100 holders dominance	99.60%
Contract deployer address	0xdbf6530dac179acbafabdbdcf4014ef00f694f2e
Contract's current owner address	0x0000000000000000000000000000000000000000

IDEAS Token Distribution

The top 100 holders collectively own 99.60% (298,812,839.05 Tokens) of IDEAS

Token Total Supply: 300,000,000.00 Token | Total Token Holders: 155

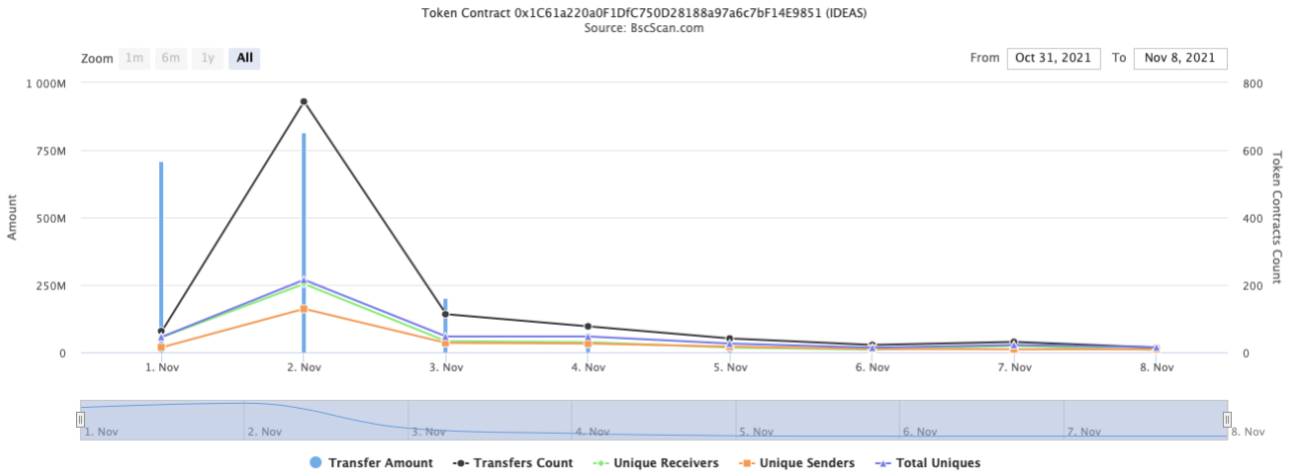


(A total of 298,812,839.05 tokens held by the top 100 accounts from the total supply of 300,000,000.00 token)

IDEAS Contract Interaction Details

Time Series: Token Contract Overview

Mon 1, Nov 2021 - Mon 8, Nov 2021



IDEAS Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	KIPS: Locked Wallet	88,350,000.000000006	29.4500%
2	PancakeSwap V2: IDS 3	20,976,646.23958525273145 1243	6.9922%
3	0x53a830748cce069b72d9b9e0aa0007ab4444f4b9	12,704,165.221294590295067232	4.2347%
4	0xf7aabb9d0d0338ad77b3c85b02b992886bd739b2	8,999,999.999999994	3.0000%
5	0xced7aff17339cedcda3b2c1245b7c6edf395c5eb	7,650,000	2.5500%
6	0xb6b09092a8ffc99aef4c34478ab6847c0f6ebb89	7,348,582.548578552682089442	2.4495%
7	0xabd3fc3e47ceacb259ab93f78eb7427d4507b6f7	7,323,844.318834290516665837	2.4413%
8	0xa577b30afd40dba4fef28c4779cda73f6b666d6c	6,155,321.176774610581578759	2.0518%
9	0x6f6e91a349ddf36db110e4606b9b12a719a29e5b	5,633,838.000506768033417877	1.8779%
10	0x367ec5c1be60eba0d5807767c2073b5b00364984	5,506,261.210961968098959804	1.8354%

Contract functions details

+ Context
  - [Int] _msgSender
  - [Int] _msgData

+ [Int] IERC20
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #

+ [Int] IERC20Metadata (IERC20)
  - [Ext] name
  - [Ext] symbol
  - [Ext] decimals

+ ERC20 (Context, IERC20, IERC20Metadata)
  - [Pub] <Constructor> #
  - [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 #
  - [Int] _burn #
  - [Int] _approve #
  - [Int] _beforeTokenTransfer #
  - [Int] _afterTokenTransfer #

+ IDEAS (ERC20)
  - [Pub] <Constructor> #
    - modifiers: ERC20

($) = payable function
= non-constant function

Issues Checking Status

	Issue description	Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

No low severity issues found.

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

LP token Lock:
https://dxsale.app/app/v3/dxlockview?id=0&add=0xDBF6530DaC179aCbaFaBdBDCF4014EF00F694F2E&type=lplock&chain=BSC

80% of our budget wallet is locked for 6 months:
https://dxsale.app/app/v3/dxlockview?id=0&add=0xF7AAbb9d0D0338AD77B3c85B02b992886bd739B2&type=tokenlock&chain=BSC/

budget wallet Address: 0xF7AAbb9d0D0338AD77B3c85B02b992886bd739B2

83% of our Marketing wallet is locked for 2 months:
https://dxsale.app/app/v3/dxlockview?id=0&add=0xced7AfF17339CEdCDa3B2C1245B7C6edf395c5eb&type=tokenlock&chain=BSC/

Marketing wallet Address: 0xced7AfF17339CEdCDa3B2C1245B7C6edf395c5eb

the 5% team wallet, which we decide that will never be used, and maybe will be burned later, this wallet is locked for 1 year:
https://dxsale.app/app/v3/dxlockview?id=0&add=0x331cfFa448b031dDA93B1a690661F29026Dbe2af&type=tokenlock&chain=BSC/

Dev Wallet Address: 0x331cfFa448b031dDA93B1a690661F29026Dbe2af

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