

# Smart Contract Security Audit Report

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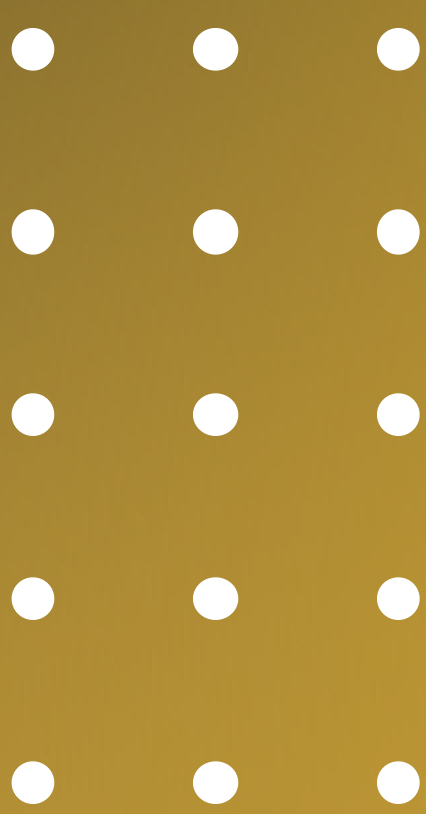
**KNOXSTERTOKEN**

March 2023

Security Status



[www.hacksafe.io](http://www.hacksafe.io)



# Audit Details



## Audited project

KNOXSTERTOKEN



## Deployer address

0x29092e1a113c34af3956c543c4a6207e49b0037c



## Client contacts

KNOXSTERTOKEN Team



## Blockchain

Ethereum



## Website

<https://fortknoxster.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.



# Procedure

## **Step 1 - In-Depth Manual Review**

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

## **Step 2 - Automated Testing**

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

## **Step 3 – Leadership Review**

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

## **Step 4 - Resolution of Issues**

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

## **Step 5 - Published Audit Report**

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

# Background

HackSafe was commissioned by KNOXSTERTOKEN to perform an audit of smart contracts:

- <https://etherscan.io/token/0x16484d73Ac08d2355F466d448D2b79D2039F6EBB#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 understood 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.

# Contract Details

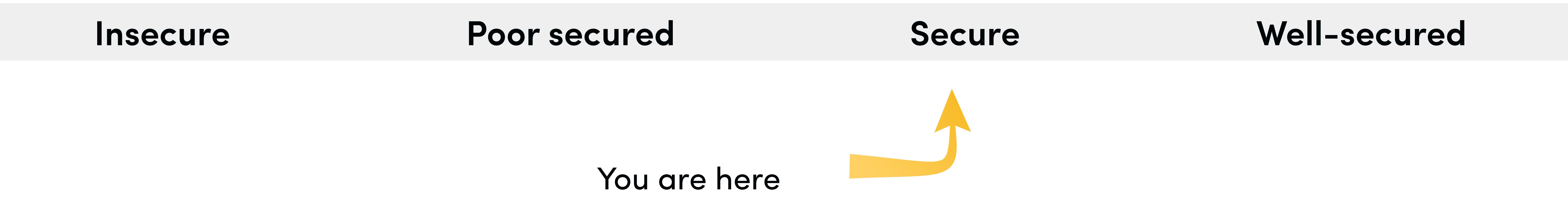
## Token contract details for 07.03.2023

Token Type	: DEFI
Contract name	: FKX
Contract address	: 0x16484d73Ac08d2355F466d448D2b79D2039F6EBB
Total supply	: 150,000,000
Token ticker	: FKX
Decimals	: 18
Token Holders	: 15,505
Transactions count	: 26,147
Compiler version	: v0.6.10+commit.00c0fcaf
Contract deployer address	: 0x29092e1a113c34af3956c543c4a6207e49b0037c
Contract governance address	: No Owner



# Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are “**Secure**”. This token contract does not contain owner control, which do make it fully decentralized.



We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low.

# KNOXSTER TOKEN Distribution






















 The top 100 holders collectively own 86.77% (130,149,690.09 Tokens) of Knoxstertoken

 Token Total Supply: 150,000,000.00 Token | Total Token Holders: 15,505



## KNOXSTERTOKEN Top 20 Token Holders

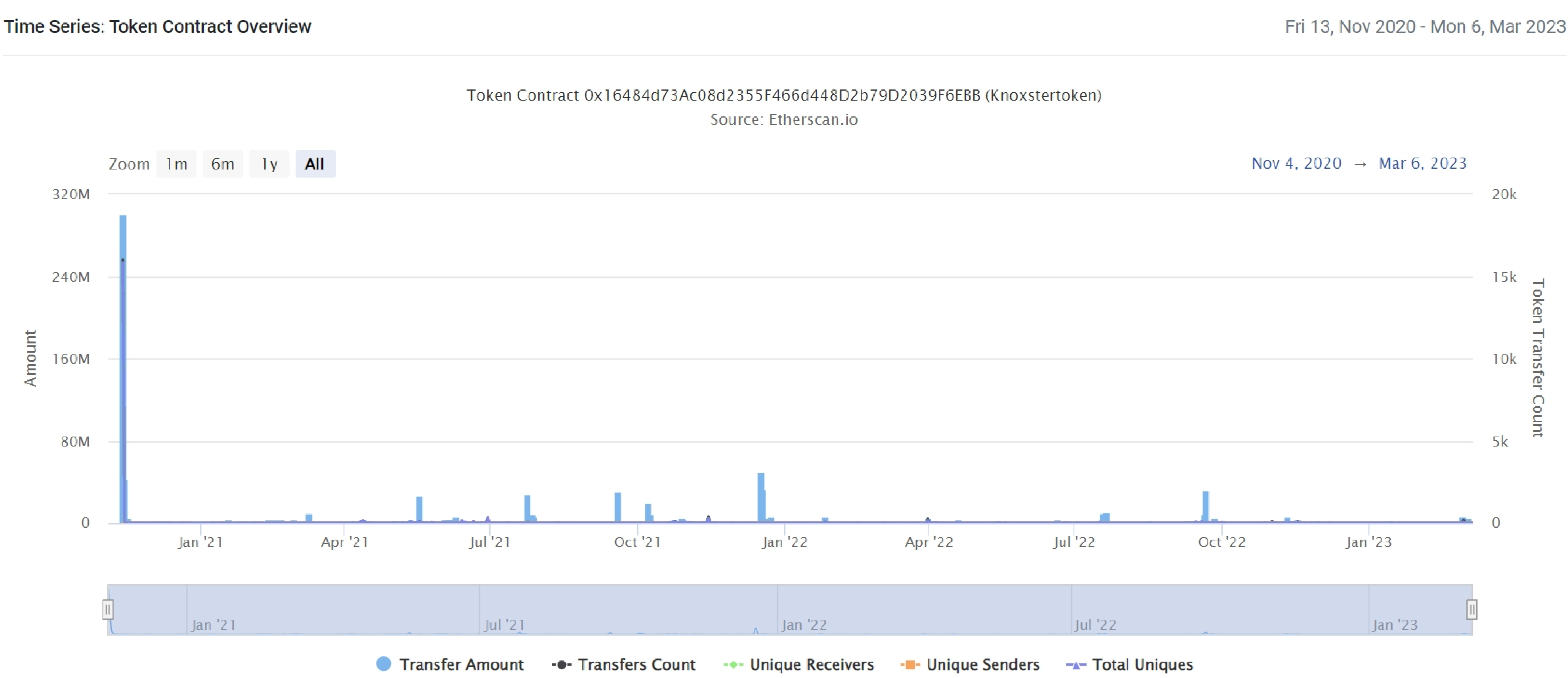
(A total of 130,149,690.09 tokens held by the top 100 accounts from the total supply of 150,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">KuCoin 6</a> 	49,826,157.718489494791787231	33.2174%
2	<a href="#">0x89a10C...55b7d6b8</a> 	14,696,114.3193311	9.7974%
3	<a href="#">0x329bdB...1f9cf284</a> 	5,403,298.752569212164379619	3.6022%
4	<a href="#">0xF197b9...5C12D5E0</a> 	4,859,805	3.2399%
5	<a href="#">0x463a09...a7488fF0</a> 	4,057,469.6343441	2.7050%
6	<a href="#">0xA32DD7...EfB9d3fd</a> 	4,002,737.32	2.6685%
7	<a href="#">0xfd1e68...e179A91E</a> 	3,985,600.71862172	2.6571%
8	<a href="#">0xD3C38a...44Dca838</a> 	3,010,868.76	2.0072%
9	<a href="#">0xF615b0...8BD319F9</a> 	3,001,129.43	2.0008%
10	<a href="#">0x866868...9D524ED5</a> 	2,587,618	1.7251%
11	<a href="#">KuCoin 9</a> 	2,431,220.671291799062019614	1.6208%
12	 <a href="#">IDEX</a> 	2,131,388.134045395183066953	1.4209%
13	<a href="#">KuCoin 12</a> 	2,052,846.462099705279870439	1.3686%
14	<a href="#">0x689880...574F1F9d</a> 	1,385,054.88804111	0.9234%
15	<a href="#">0xD0c66c...628Db50A</a> 	1,105,436.140277437301170527	0.7370%
16	<a href="#">0x80C3c1...eC85391b</a> 	1,081,800	0.7212%
17	<a href="#">0x4b5d01...e18a1B3A</a> 	1,046,828.7681	0.6979%
18	<a href="#">0x1D9b52...0e3819E2</a> 	1,005,741.039	0.6705%
19	<a href="#">0x49cfE5...cB295055</a> 	1,001,000	0.6673%
20	<a href="#">0xc1bFA7...6e66ADf0</a> 	940,359.317287651621956926	0.6269%



# KNOXSTER TOKEN Distribution

## KNOXSTERTOKEN Contract Overview



# Contract functions details

## +Context

- [Int] \_msgSender
- [Int] \_msgData

## + [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

## + [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

## + [Lib] Address

- [Int] isContract
- [Int] sendValue
- [Int] functionCall
- [Int] functionCall
- [Int] functionCallWithValue
- [Int] functionCallWithValue
- [Pvt] \_functionCallWithValue

## +ERC20 (Context, IERC20)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #



# Contract functions details

- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] \_transfer #
- [Int] \_mint #
- [Int] \_burn #
- [Int] \_approve #
- [Int] \_setupDecimals #
- [Int] \_beforeTokenTransfer #

+FKX (ERC20)

- [Pub] <constructor>
- modifiers: ERC20

(\$) = payable function

# = non-constant function

# Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	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.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Low issue



# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

# Security Issues

## ✔ Critical Severity Issues

No critical severity issue found.

## ✔ High Severity Issues

No high severity issue found.

## ✔ Medium Severity Issues

No medium severity issue found.

## ✔ Low Severity Issues

One low severity issue found.

## 1. Old compiler version

- **Description**

Contract has been deployed using too old solidity version.

- **Recommendation**

It is advisable to deploy contract using any of the latest version of solidity.



# Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.