

Smart Contract Security Audit Report

Silicon Finance

April 2022

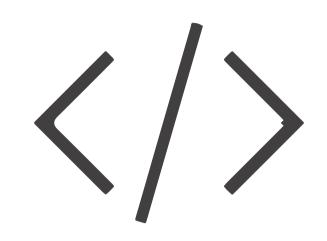


Audit Details



Audited project

Silicon Finance



Deployer address
0x0e8106ffe291271dEFDD8704CE4A17106a2baDf5



Client contacts

Silicon Finance team



Binance smart chain



Website

https://thesilicon.finance/

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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.

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Background

HeckSafe was commissioned by Silicon Finance to perform an audit of smart contracts:

• https://bscscan.com/address/0x532aC600f284E2b048B26ed6112b92b8de1A7a74#code

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Contract Details

Token contract details for 18.04.2022

: Silicon Finance Contract name Contract address : 0x532aC600f284E2b048B26ed6112b92b8de1A7a74 Total supply : 100 Million Token Ticker :SLK Decimals : 18 Token Holders Transactions count : 28 : 0x0e8106ffe291271dEFDD8704CE4A17106a2baDf5 Contract deployer address : 0x0e8106ffe291271dEFDD8704CE4A17106a2baDf5 Owner address

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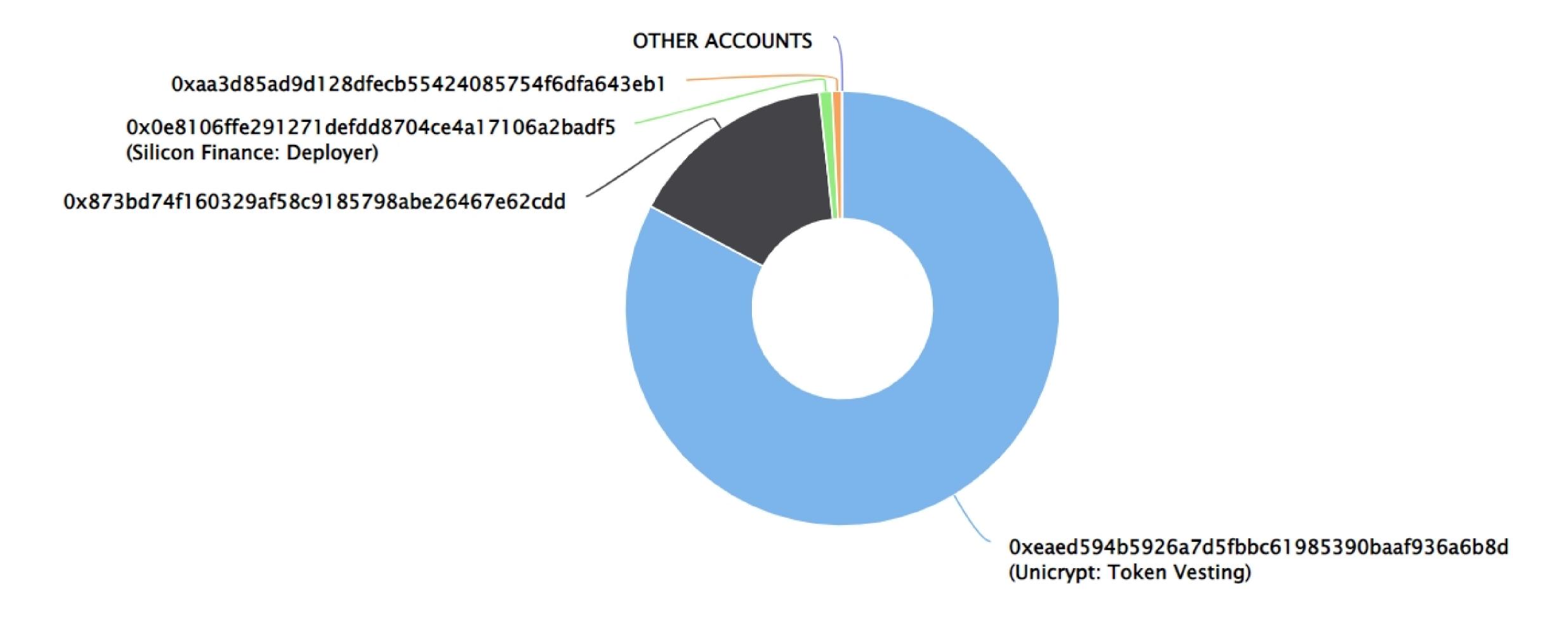
Silicon Finance Token Distribution

The top 100 holders collectively own 100.00% (100,000,000.00 Tokens) of Silicon Finance

▼ Token Total Supply: 100,000,000.00 Token | Total Token Holders: 4

Silicon Finance Top 100 Token Holders

Source: BscScan.com



Silicon Finance Top 4 Token Holders

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

Rank	Address	Quantity (Token)	Percentage
1	Unicrypt: Token Vesting	82,817,117.515750000000000008	82.8171%
2	■ 0x873bd74f160329af58c9185798abe26467e62cdd	15,492,000	15.4920%
3	Silicon Finance: Deployer	950,105.914311460464812314	0.9501%
4	0xaa3d85ad9d128dfecb55424085754f6dfa643eb1	740,776.569938539535187678	0.7408%

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Contract functions details

```
+ [Int] IBEP20
    [Ext] totalSupply
    - [Ext] decimals
    [Ext] symbol
    - [Ext] name
    [Ext] getOwner
    - [Ext] balanceOf
    - [Ext] transfer #
    [Ext] allowance
    [Ext] approve #
    - [Ext] transferFrom #
+ Context
    - [Int] <Constructor>#
    - [Int] _msgSender
    - [Int] _msgData
+ [Lib] SafeMath
    - [Int] add
    - [Int] sub
    - [Int] sub
    - [Int] mul
    - [Int] div
    - [Int] div
    - [Int] mod
    - [Int] mod
+ Ownable (Context)
    - [Int] <Constructor>#
    - [Pub] owner
    - [Pub] renounceOwnership
     - modifiers: onlyOwner
    - [Pub] transferOwnership #
     - modifiers: onlyOwner
    - [Int] _transferOwnership #
```

Contract functions details

```
+ SiliconFinanceToken (Context, IBEP20, Ownable)
    - [Pub]<Constructor> #
    [Ext] getOwner
    - [Ext] decimals
    [Ext] symbol
    - [Ext] name
    [Ext] totalSupply
    - [Ext] balanceOf
    [Ext] transfer #
    [Ext] allowance
    [Ext] approve #
    - [Ext] transferFrom #
    - [Pub] increaseAllowance #
    - [Pub] decreaseAllowance #
    - [Pub] burn #
    - [Int] _transfer #
    [Int] _burn #
    - [Int] _approve #
    - [Pub] _burnFrom #
($) = payable function
```

= non-constant function

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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

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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.

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Security Issues

- Critical Severity Issues
 No critical severity issue found.
- High Severity IssuesNo high severity issue found.
- Medium Severity Issues
 No medium severity issues found.
- Low Severity IssuesNo low severity issues found.

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Owner Privileges

Owner Privileges (in the period when the owner is not renounced):

- Silicon Finance Contract:
 - Owner can transfer ownership.
 - Owner can renounce ownership.

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Conclusion

Smart contract contains no 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.

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