HackSafe

Smart Contract Security Audit Report

SUMMERIS

February 2023

Security Status

★★★★☆

www.hacksafe.io

Audit Details

Audited project
SUMMERIS

Deployer address
0xf0958a3667222508946ff878d0202bae98f5ecad

Client contacts
SUMMERIS Team

Blockchain
Binance smart chain

Website
Not Provided

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 SUMMERIS to perform an audit of smart contracts:

- https://bscscan.com/token/0x84689271848cc405A36B967D24d73f20884F3648#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 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 02.02.2023

Token Type	: NFT
Contract name	: Summeris
Contract address	: 0x84689271848cc405A36B967D24d73f20884F3648
Total supply	: 100,000,000
Token ticker	: SUM
Decimals	: 18
Token Holders	: 471
Transactions count	: 5,481
Compiler version	: v0.8.9+commit.e5eed63a
Contract deployer address	: 0xf0958a3667222508946ff878d0202bae98f5ecad
Owner address	: No owner

Audit Summary

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

Insecure	Poor secured	Secure	Well-secured

You are here 

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, 1 medium and 0 low.

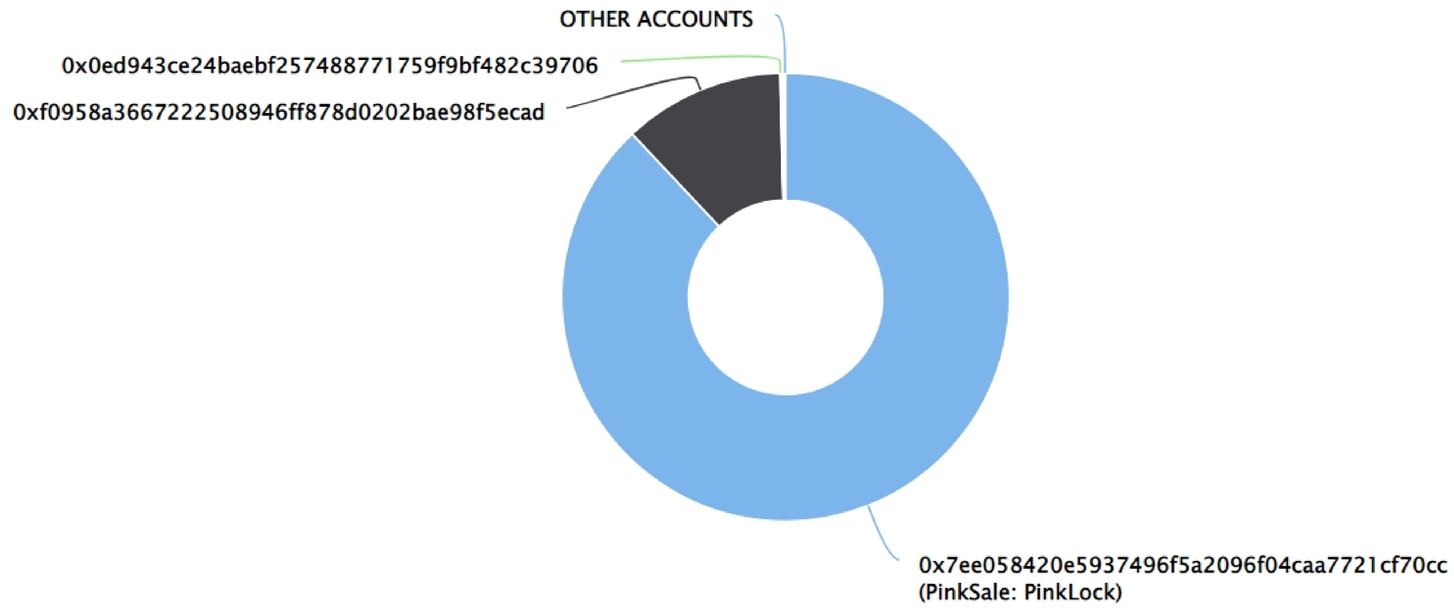
SUMMERIS Token Distribution

The top 100 holders collectively own 99.92% (99,915,110.77 Tokens) of Summeris App

Token Total Supply: 100,000,000.00 Token | Total Token Holders: 471

Summeris App Top 100 Token Holders

Source: BscScan.com



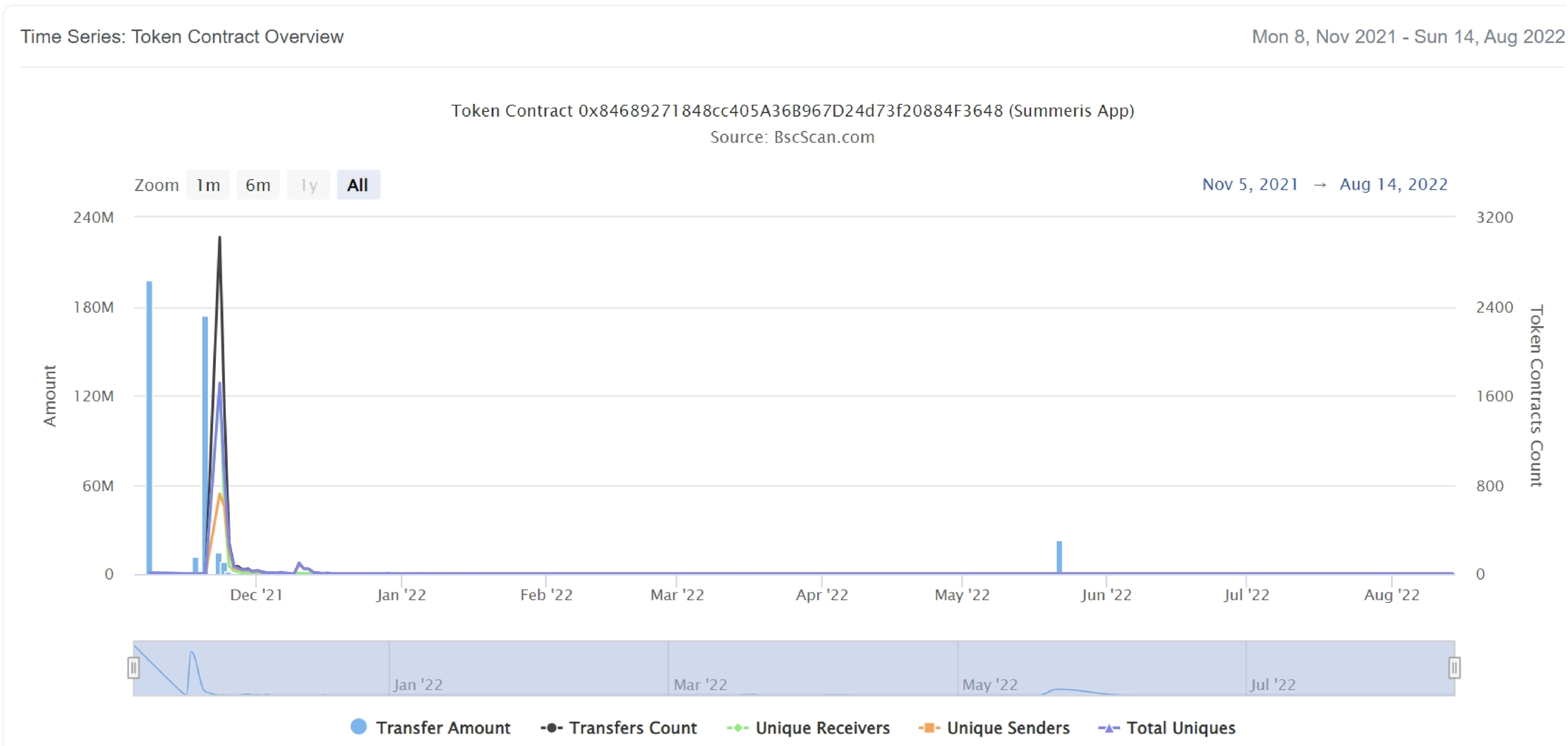
SUMMERIS Top 20 Token Holders

(A total of 99,915,110.77 tokens held by the top 100 accounts from the total supply of 100,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	PinkSale: PinkLock	88,000,000	88.0000%
2	0xf0958a3667222508946ff878d0202bae98f5ecad	11,607,972.973101920088135741	11.6080%
3	0x0ed943ce24baebf257488771759f9bf482c39706	39,881.428958945480813714	0.0399%
4	0x0f344945b4a2d3ca9764d40a3489aa5e6fac9b4e	18,648.898791079309188967	0.0186%
5	0x78d22cf4cf99fec4f86aba9e777220e187385d94	12,750	0.0128%
6	0xe879948f5b764f30189684ec810cc32d0502f538	10,625	0.0106%
7	0xc1165451bd3fb116fc96962375aa50c85f6ee88c	8,840	0.0088%
8	0x24a068600cf2bbafb59499da02277259511972e9	8,500	0.0085%
9	0xe838de1fdfe4b2f3a04a57431e9287ea6ea289c8	8,500	0.0085%
10	0xf7752ab9451d2cf9a7332e265a3d9c886dd66997	8,500	0.0085%
11	0xafa6e8b65c346e23a3a288258117ddf9f9633501	7,736.724650736859655169	0.0077%
12	0xb59dd02623050200088d0296b94fcffd10061ee5	6,375	0.0064%
13	0x45549e961534829f553ce52896a9568845bf7dce	6,375	0.0064%
14	0x3fe9abb2a06cfbab9c2a60359f94a3d276a5f49c	6,292.535144559181355883	0.0063%
15	0x730b380de519d4943a5213fce5c8e5bb1596d38a	5,696.783069883696097434	0.0057%
16	0x74cc90b3d72896088bdc96d26cd1e7163055cbd8	4,580.05356721862822363	0.0046%
17	0xc60ecee5d9b88e2d758f8a376ab58aaf6d7bb0da	4,279.77386375	0.0043%
18	0x7e25bbefa460aea3d09b5fad93ae36719bb78a8b	4,250	0.0043%
19	0x25e04f4f10728ca2042b9a55f0d37078e2336f2a	4,250	0.0043%
20	0xb6c88f8e907db927699f00f35d2ddb97aaca6c49	4,250	0.0043%

SUMMERIS Token Distribution

SUMMERIS Contract overview



Contract functions details

Summeris.sol

+Summeris (ERC20)

- [Pub] renounceOwnership #
  - modifiers: onlyOwner

Context.sol

+Context

-[Int] _msgSender

-[Int] _msgData

IERC20Metadata.sol

+[Int] IERC20Metadata (IERC20)

-[Ext] name

-[Ext] symbol

-[Ext] decimals

IERC20.sol

+[Int] IERC20

-[Ext] totalSupply

-[Ext] balanceOf

-[Ext] transfer #

-[Ext] allowance

-[Ext] approve #

-[Ext] transferFrom #

ERC20.sol

+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 #

Contract functions details

-[Int] _burn #
-[Int] _approve #
-[Int] _beforeTokenTransfer #
-[Int] _afterTokenTransfer #

Ownable.sol

+Ownable (Context)
- [Pub]< Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner
- [Pvt] _setOwner #

($) = payable function
= non-constant function

Issues Checking Status

No.	Title	Status
1.	Compiler error	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.	Medium issue
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

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

One medium severity issue found.

1. Safe Open Zeppelin contracts implementation and usage.

- **Issue:**

  The following smart contract Summeris.sol have direct imported openzeppelin contracts any changes in that repository can effect this smart contract.

- **Recommendation**

  It is advisable to not direct import any smart contract from any depository.

Low Severity Issues

No low severity issue found.

Centralization

Owner Privileges

- SUMMERIS Coin Contract:
    - Owner can transfer and renounce Ownership.

This smart contract has some functions which can be executed by the admin (Owner) only.
If the admin wallet private key would be compromised, then it would create trouble, as smart contract ownership has not been renounced.

- Renounceownership
- Transferownership

Conclusion

Smart contract contains medium 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.