

Smart Contract Security Audit Report

SmartGlobal

January 2023



Audit Details



Audited project

SmartGlobal

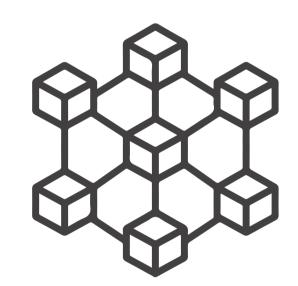


Deployer addressTU4HxgwCZ6CSSkkDx8XscXVb5fj2uhq86m



Client contacts

SmartGlobal Team



Blockchain

Tronchain



Website

Not provided

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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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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.

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Background

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

https://tronscan.org/#/contract/TGrniPhzXr2sdMEdGtjCzzuGQ95m4A7r7L/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.

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Contract Details

Token contract details for 03.01.2023

Token Type : DEFI

Contract name : SmartGlobal

Contract address : TGrniPhzXr2sdMEdGtjCzzuGQ95m4A7r7L

Total supply : 1,000,000,000.000000

Token ticker : SGB

Decimals : 9

Token Holders : 54

Transactions count : 253

Compiler version : solidity 0.5.10

Contract deployer

address

: TU4HxgwCZ6CSSkkDx8XscXVb5fj2uhq86m

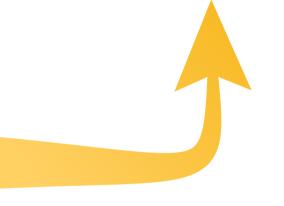
Owner address : No owner

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Audit Summary

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

Insecure Poor secured Secure Well-secured



You are here

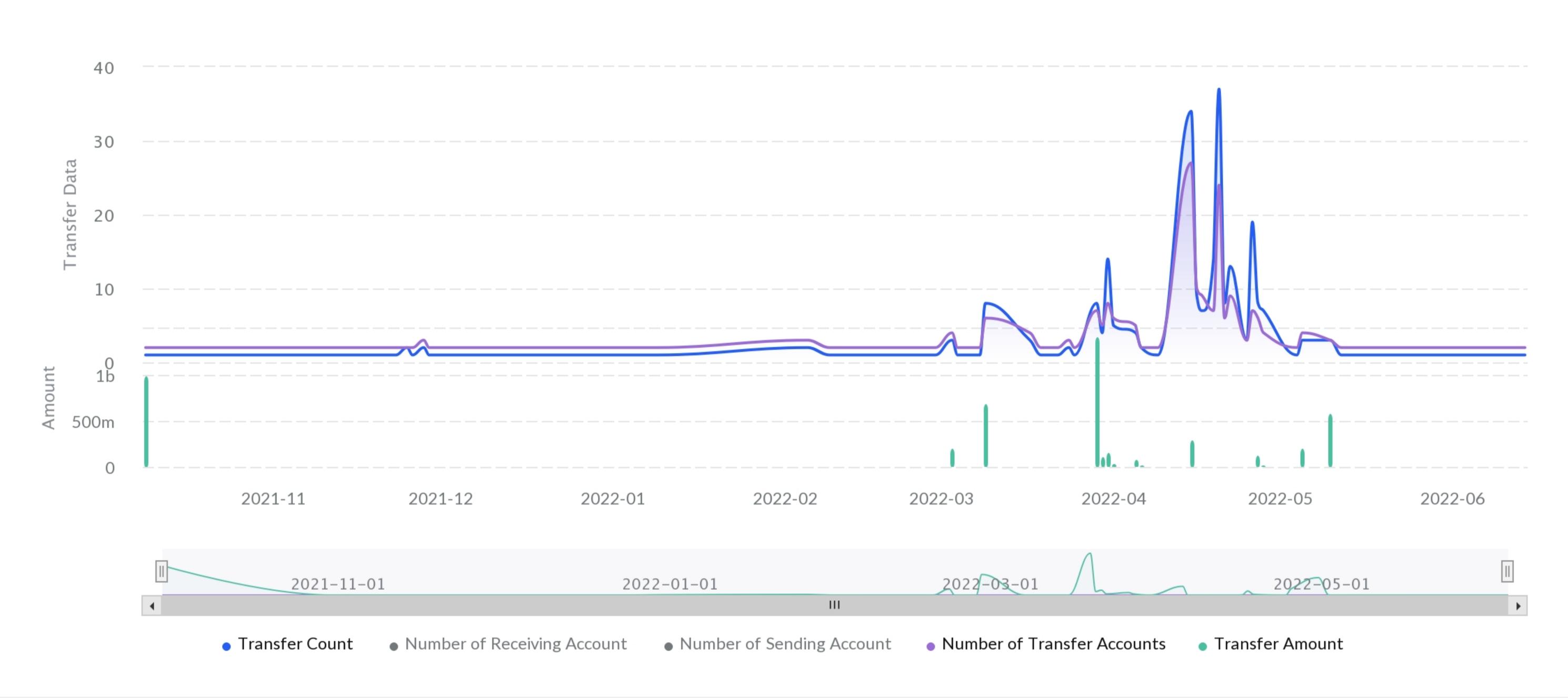
We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

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

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SmartGlobal Token Distribution

SmartGlobal transfer overview



SmartGlobal Top 20Token Holders

#	Address	? Amount	? Value	? Percentage	? Latest Txn Time (UTC)
1	SC TGrniPhzXr2sdMEdGtjCzzuGQ95m4A7r7L	592,553,616.499999958		59.255362%	2022-05-10 11:04:30
2	sc TDaHY8XivcbkjiBiDFa1NWC9HtsruPFULU	126,996,762.922406401		12.699676%	2022-05-05 02:10:27
3	TNKn47ZXqkLMHKgyC8To4obdfgdpwFdyg2	99,443,936.349939229		9.944394%	2022-04-22 17:21:24
4	TThwzu2NPzRqvY5NtBrUKYU88XYz9wZY4e	98,500,000.00000000		9.85%	2022-03-29 19:45:24
5	TDdXCQeQ3z8iojN8SXNa6H9EnKiiSwBES2	38,400,000.00000000		3.84%	2022-03-29 19:57:54
6	SC TVAHuLq3s4UA4iHhJAdniWTwpyAmygdqPp	15,053,003.456324620		1.5053%	2022-05-05 02:10:27
7	TCDvikPiPuA1bzwZb4R8mgDFmttBBNobFK	10,865,323.708757313		1.086532%	2022-04-28 13:26:24
8	TS4gPnNjjYP4JV3BDifmTf56HpXVdBnXgX	4,690,000.00000000		0.469%	2022-04-15 20:23:30
9	TV5uQ8b7JVMdm4Kxz8fJrM98XoZqr2U8Ea	3,600,000.00000000		0.36%	2022-04-01 14:23:18
10	TARoW1DFdi6EutJjUHpX42iFobKLdwdXER	2,544,364.807446641		0.254436%	2022-04-28 11:33:24
11	TGsg7RwLesiLizJQkpCXTqPGGnkB8CNtuS	2,000,000.00000000		0.2%	2022-03-31 19:47:03
12	TMrcWRD9gT8vCNnh8rGyT2jGYEj2ZK8hnu	1,100,000.00000000		0.11%	2022-05-12 11:30:36
13	TMx8py8ikPEecwqNZQ8CVoemB5Brnw6CU9	1,000,000.00000000		0.1%	2022-03-30 21:48:03
14	TAt7H4cJt6ffUBEMRRVYpEqXVkdrzYC5xa	1,000,000.00000000		0.1%	2022-02-09 13:55:57
15	TMy2LyL4VU775YmtEM4A7LjFXpP6dPBT3f	280,200.00000000		0.02802%	2022-04-20 05:16:03
16	TVAVoPi5k7diqGGh1AvXikgVLhvyykAPd1	212,010.00000000		0.021201%	2022-03-24 15:28:54
17	TTCYWgqFzdJFyyriYPxr2ZvwNYVMBn7RDa	205,000.00000000		0.0205%	2021-11-23 22:41:09
18	TGdQYqgT8xFdN2aEaJg3jc5Y3zKLXxbBP8	203,001.00000000		0.0203%	2021-11-25 18:10:24

SmartGlobal Token Distribution

SmartGlobal Top 20Token Holders

 19
 TGuB6YuPzjsudPmnEnHuPfCFqre8DudZon
 200,000.00000000
 - 0.02%
 2022-04-20 05:27:30

 20
 TSk91ZnaavV9shUs2N4fNgmqg1DouSNuxN
 182,752.519243655
 - 0.018275%
 2022-04-22 17:56:45

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Contract functions details

```
ITRC20.sol
+ [Int] ITRC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #
SafeMath.sol
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] mod
TRC20.sol
+TRC20 (ITRC20)
    -[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] _burnFrom #
TRC20Detailed.sol
+TRC20Detailed (ITRC20)
    -[Pub] <constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
```

Contract functions details

```
Token.sol
```

+SmartGlobal (TRC20, TRC20Detailed)

-[Pub] <constructor> #

(\$) = payable function

= non-constant function

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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.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Low issue

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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 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.

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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.

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