



Smart Contract Security Audit Report

Super Step

July 2022

Security Status



www.hacksafe.io



Audit Details



Audited project

Super Step



Deployer address

0xAef547a5FB271700bB8F393b6d74219088444885



Client contacts

Super Step team



Blockchain

Binance Smart Chain



Website

<https://www.superstep.org/>

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 Super Step to perform an audit of smart contracts:

- <https://bscscan.com/address/0x6F7a88274647ad54BCbE25e9d28c51DDB6b5B55F#code>

The purpose of the audit was to achieve the

- 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 04.07.2022

Token Type	: ERC20
Contract name	: SuperGMT
Contract address	: 0x6F7a88274647ad54BCbE25e9d28c51DDB6b5B55F
Compiler version	: v0.8.13+commit.abaa5c0e
Total supply	: 6,000,000,000
Token Ticker	: SGMT
Decimals	: 18
Token Holders	: 1,888
Top 100 token holder's dominance	: 99.90%
Transactions count	: 20,859
Contract deployer address	: 0xAef547a5FB271700bB8F393b6d74219088444885
Owner address	: No Owner

Social profiles

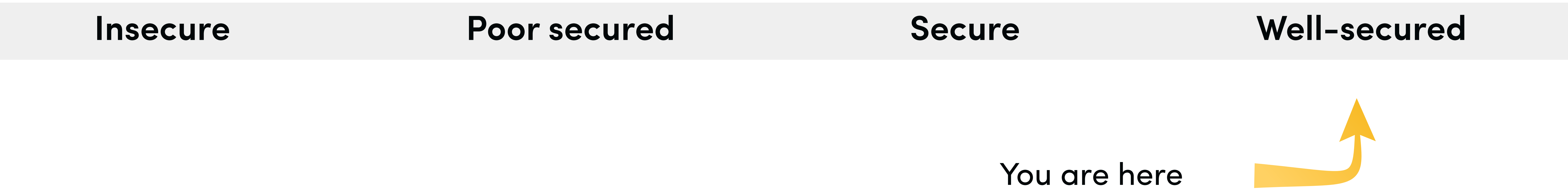
Twitter Profile	: https://twitter.com/SuperStepO
Telegram Profile	: https://t.me/superstep_io
Coinmarketcap profile	: https://coinmarketcap.com/currencies/superstep/
Reddit profile	: https://www.reddit.com/r/SuperStep/

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
<p>Tokenomics :</p> <ul style="list-style-type: none">• Name : SuperStep• Symbol : SuperStep• Decimals : 18• Protocol : ERC20• Max Total Supply : 6,000,000,000	<p>Yes, This is valid.</p>

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 as owner does not have control over smart contract.



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 0 low and some very low-level issues. These issues are not critical ones.

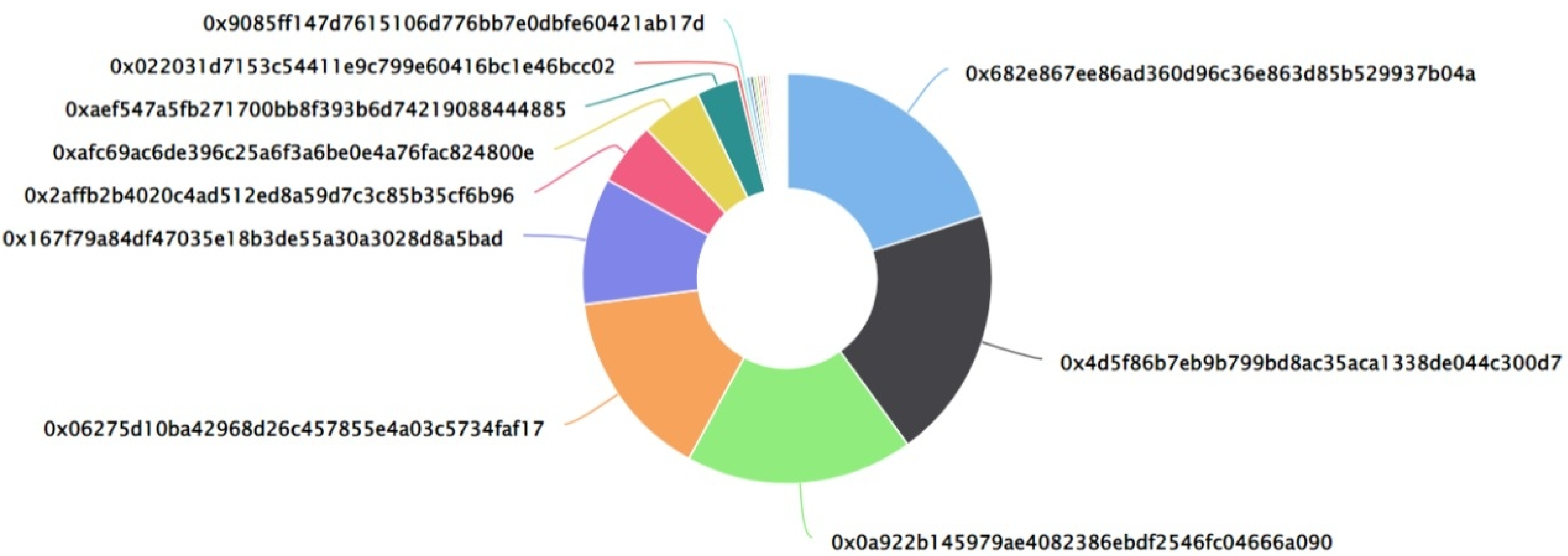
SuperStep Distribution

The top 100 holders collectively own 99.90% (5,993,763,357.98 Tokens) of SuperStep

Token Total Supply: 6,000,000,000.00 Token | Total Token Holders: 1,888













SuperStep Top 100 Token Holders

Source: BscScan.com



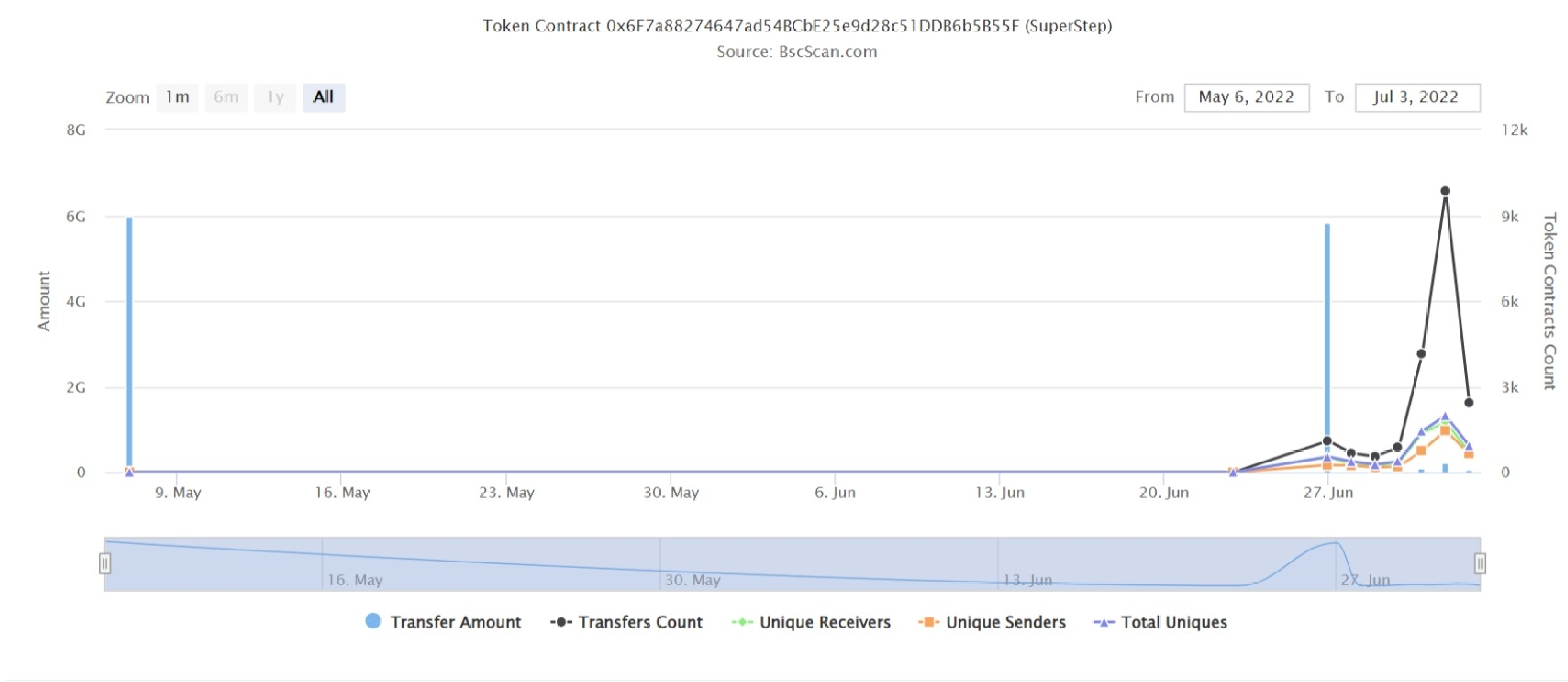
SuperStep Distribution

SuperStep Top 20 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x682e867ee86ad360d96c36e863d85b529937b04a	1,200,000,000	20.0000%
2	0x4d5f86b7eb9b799bd8ac35aca1338de044c300d7	1,200,000,000	20.0000%
3	0x0a922b145979ae4082386ebdf2546fc04666a090	1,080,000,000	18.0000%
4	0x06275d10ba42968d26c457855e4a03c5734faf17	900,000,000	15.0000%
5	0x167f79a84df47035e18b3de55a30a3028d8a5bad	600,000,000	10.0000%
6	0x2affb2b4020c4ad512ed8a59d7c3c85b35cf6b96	300,000,000	5.0000%
7	 0xafc69ac6de396c25a6f3a6be0e4a76fac824800e	286,772,987.4506499999705088	4.7795%
8	0xae547a5fb271700bb8f393b6d74219088444885	200,000,000	3.3333%
9	 0x022031d7153c54411e9c799e60416bc1e46bcc02	20,000,000	0.3333%
10	 0x9085ff147d7615106d776bb7e0dbfe60421ab17d	20,000,000	0.3333%
11	PancakeSwap V2: SGMT 4	19,632,382.769822613120985592	0.3272%
12	 0x125cd12df15408afc12c8cb18017107e9d404083	15,999,836	0.2667%
13	 0x3c06b66f8887ceb840bd8c10efcfc0919ae0021d	15,000,000	0.2500%
14	 0xfa79fb27ebc7394597539c54d556d4534a0e0633	14,999,804	0.2500%
15	 0x3f22b166bcf96ab39efa33484dc83d1ed428ced8	13,000,000	0.2167%
16	 0xb7dca92d5e0bad13c7e7dd04019a73d87ea3e324	12,670,872.363503335418316	0.2112%
17	 0xb7640f2af3d536648cfe69b96f72995b3541610a	11,999,792	0.2000%
18	 0x68ea6b0cc04d0d6e202e5ef67ea2c9b30d8b35ba	10,000,000	0.1667%
19	 0x846eb2e466bd876b74651508c86e5c9db4588c13	9,999,794	0.1667%
20	 0xcd14e5ce833b7def8e7f031a1fdeccfaa005ca56	8,999,804	0.1500%

SuperStep Distribution

SuperStep Contract Overview



Contract functions details

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

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

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

+ SuperGMT (Context, IERC20, IERC20Metadata)
  -<constructor>
  -[Ext] name
  -[Ext] symbol
  -[Ext] decimals
  -[Ext] totalSupply
  -[Ext] balanceOf
  -[Ext] transfer
  -[Ext] allowance
  -[Ext] approve
  -[Ext] transferFrom
  -[Ext] increaseAllowance
  -[Ext] decreaseAllowance
  -[Int] _transfer #
  -[Int] _mint#
  -[Int] _approve #
  -[Int] _spendAllowance #
```

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.	Compiler version too old	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

No medium severity issues found.

✔ Low Severity Issues

No low issues found..

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.