# BLOCKCHAIN FOCUS GROUP

# Basic Smart Contract Security Audit

## For GalaxyFinance.ONE



31 July 2021

## About BCFG Security Audit

From prototype to production, BCFG Audit team works closely with projects through the complete development cycle to identify security issues and recommend best practices. Our mission is to mitigate and pinpoint all possible security risks and flaws within each line of code. All audit reports will be tailored to different clients, unlike some audit firms that provide identical reports to different projects.

Other than establishing a secure platform for our clients, we strive to promote a secure and safe environment for the DeFi community as well.

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# Disclaimer

Blockchain Focus Group ("BCFG") has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided by the paying client/community for the scope of this audit. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the smart contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

This report is not an investment advice, nor does it guarantee adequacy of a business model and/or a bug-free code. This report should be used only to discuss known technical problems. The code may include problems on Solidity that are not included in this report. It will be necessary to resolve addressed issues and conduct thorough tests to ensure the safety of the smart contract. Information is provided 'as is', and BCFG is under no covenant to the completeness, accuracy or solidity of the contracts audited. In no event will BCFG or its partners, employees, agents or parties related to the provision of this audit report be liable to any parties for, or lack thereof, decisions and/or actions with regards to the information provided in this audit report. BCFG does not recommend that any cryptocurrency should be bought, sold, or held by you. Blockchain technology and cryptocurrencies are highly volatile and speculative by nature. Do conduct your own due diligence and consult your financial advisor before making any investment decisions. users should exercise considerable caution when participating in any shape or form in this nascent industry.

The audit report has made all reasonable attempts to provide clear and articulate recommendations to the Project team with respect to the rectification, amendment and/or revision of any highlighted issues, vulnerabilities or exploits within the contracts provided. It is the sole responsibility of the Project team to sufficiently test and perform checks, ensuring that the contracts are functioning as intended, specifically that the functions therein contained within said contracts have the desired intended effects, functionalities and outcomes of the Project team.

Further, this audit report shall not be disclosed nor transmitted to any persons or parties on any objective, goal or justification without due written assent, acquiescence, or approval by BCFG.

# 1 Overview

This report has been prepared for GalaxyFinance.ONE (BSC). BCFG provides a user-centered examination of the smart contracts to look for vulnerabilities, logic errors or other issues from both an internal and external perspective. This is a **community requested** audit report that covers the basic aspects of the two BSC contracts requested.

## 1.1 Summary

| Project Name | Galaxy Finance |
|---|---|
| Website | https://bsc-triton.galaxyfinance.one |
| Blockchain | Binance Smart Chain |
| Language | Solidity |
| Relevant Links | Twitter: https://twitter.com/GalaxyFinance_1<br>Telegram: https://t.me/GalaxyFinanceOne<br>Docs: https://docs.galaxyfinance.one/<br>Blog: https://medium.com/@galaxyfinanceone<br>Github: https://github.com/galaxy-finance-one |

## 1.2 Contracts Assessed

| Token | https://bscscan.com/address/0x9cf4009e62429db3f57aa9e7e8e898427cf6865f |
|---|---|
| Masterchef | https://bscscan.com/address/0xf4eFA3cb6597048B007B9ae2bC47E82559441da9 |

## 1.3 Issues

| | Found | Resolved | Partially Resolved | Acknowledged (no change made) |
|---|---|---|---|---|
| High Severity | 0 | 0 | 0 | 0 |
| Medium Severity | 0 | 0 | 0 | 0 |
| Low Severity | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 |

# 2. Technical Analyzing

## 2.1 TRITON Token

The Triton is a token with operator. The operator can modify the transfer fee through the function **updateTransferTaxRate** with a transfer fee maximum of 5% of the transferring amount. The token will also have a maximum transfer delay of 9 second, which the operator can also modify. The contract also has a list of addresses which are excluded from the transfer rate limit.

## 2.1.1 Token Overview

| Address | 0x9cf4009e62429db3f57aa9e7e8e898427cf6865f |
|---|---|
| Token Supply | Unlimited |
| Decimal Places | 18 |
| Max Transfer | 1.5% of circulating supply |
| Min Transfer | 0 |
| Max Transfer Fee | 5% of the transferring amount |
| Max Transfer Delay | 9 seconds |

## 2.1.2 Privileged Roles

The ownership of the token contract has been transferred to the Masterchef, and owner of the Masterchef contract is the Timelock contract:
https://bscscan.com/address/0x700bb8663e4a1189b5e4d3b77e9a06a05913da7c#code

The owner is able to call the following owner-only functions:

- mint

The operator of the token contract is able to call the following operator-only functions:

- updateTransferTaxRate
- updateMaxTransferAmountRate
- updateMinTransferDelay
- setExcludedFromAntiWhale
- setVault
- setTokenLP
- transferOperator

- setFeeAddress
- setBridgeAddress
- drainToken

# 2.2 Masterchef

The Masterchef contract has a maximum deposit fee of 4%, and a maximum referral commission rate of 20%. The emission rate at the time of analyzing is 1 TRITON per block. The emission rate can be manually updated by the owner with the function **updateEmissionRate**. The pools of Masterchef also have a maximum harvest interval of 8 hours.

## 2.2.1 Privileged Roles

The following functions can only be called by the owner of the address:

- add
- set
- setBridgeAddress
- updateEmissionRate
- setReferral
- setSwapRouter
- setVault

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