



# MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

## SECURITY ASSESSMENT

## CGU TOKEN AUDIT REPORT

2021



18 NOV 2021

## SECURITY ASSESSMENT

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# SECURITY ASSESMENT

## SUMMARY

This report has been prepared for CGU to discover issues and vulnerabilities in the source code of the CGU project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and Testnet Deployment techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



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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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# SECURITY ASSESSMENT

# BACKGROUND

MotechAudit was commissioned by CGU to perform an audit of smart contracts:  
<https://bscscan.com/address/0x747d74db20cc422f39ab54edb2a3ce21f3c98af1>

The purpose of the audit was to achieve the following:

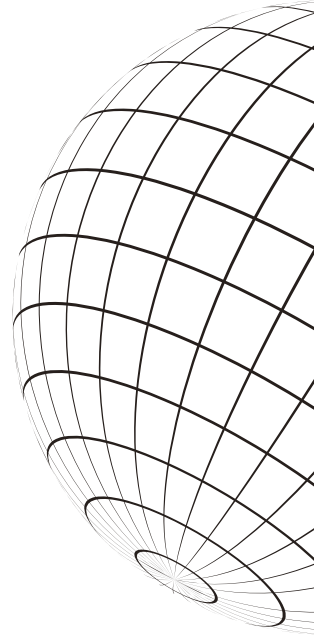
- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used 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.



# SECURITY ASSESSMENT

## AUDIT DETAILS



### AUDITED PROJECT

CGU



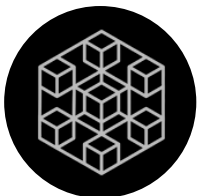
### DEPLOYER ADDRESS

0x9fF95cd7843ABC35ce366C9976A95F9011F0B83



### CLIENT CONTACTS:

CGU Team



### BLOCKCHAIN

Binance smart chain Project



### WEBSITE:

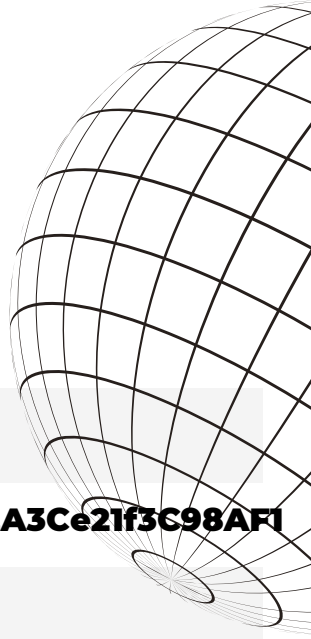
<https://www.cgu.io/>



## SECURITY ASSESSMENT

# CONTRACT DETAILS

### Token contract details for Oct-07-2021



<b>Contract name</b>	<b>CGU</b>
<b>Contract address</b>	<b>0x747D74dB20cc422F39ab54EDB2A3Ce21f3C98AF1</b>
<b>Total supply</b>	<b>1,000,000,000 CGU</b>
<b>Token ticker</b>	<b>Crypto Gaming United (CGU)</b>
<b>Decimals</b>	<b>8</b>
<b>Token holders</b>	<b>3,528</b>
<b>Transactions count</b>	<b>10,487</b>
<b>Top 100 holders dominance</b>	<b>99.01%</b>
<b>Contract deployer address</b>	<b>0x9fF95cd7843ABC35ce366C9976A95F90111F0B83</b>
<b>Contract's current owner address</b>	<b>0x9fF95cd7843ABC35ce366C9976A95F90111F0B83</b>



## SECURITY ASSESSMENT

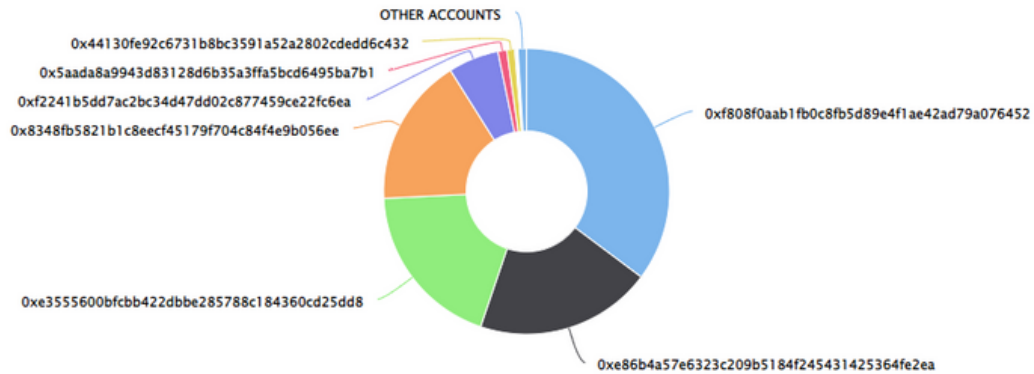
# CGU TOKEN DISTRIBUTION

The top 100 holders collectively own 99.04% (990,407,770.30 Tokens) of Crypto Gaming United

Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 3,526

Crypto Gaming United Top 100 Token Holders

Source: BscScan.com

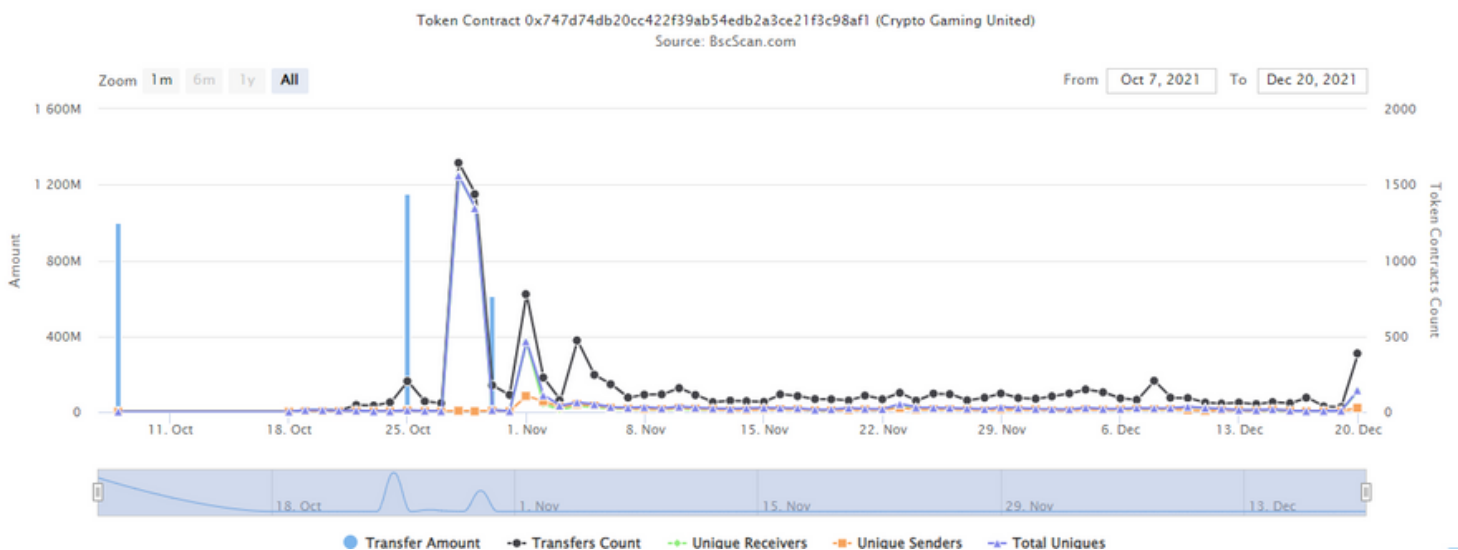


(A total of 990,407,770.30 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

## CGU TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview

Fri 8, Oct 2021 - Mon 20, Dec 2021















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SMART CONTRACT SECURITY AUDIT



## SECURITY ASSESSMENT

# TOP 10 TOKEN HOLDERS

Rank	Address	Quantity	Percentage	Analytics
1	 0xf808f0aab1fb0c8fb5d89e4f1ae42ad79a076452	352,287,438.7	35.2287%	
2	0xe86b4a57e6323c209b5184f245431425364fe2ea	200,000,000	20.0000%	
3	0xe3555600bfcbb422dbbe285788c184360cd25dd8	190,000,000	19.0000%	
4	0x8348fb5821b1c8eecf45179f704c84f4e9b056ee	168,311,476.85962761	16.8311%	
5	0xf2241b5dd7ac2bc34d47dd02c877459ce22fc6ea	57,150,541.29999972	5.7151%	
6	0x5aada8a9943d83128d6b35a3ffa5bcd6495ba7b1	10,000,000	1.0000%	
7	0x44130fe92c6731b8bc3591a52a2802cdedd6c432	9,000,021.98	0.9000%	
8	0x8aa76877ec498065b1db92fc9471d4c0b7125412	891,273.5	0.0891%	
9	0xb4c2b491b4ab17ad02c3ee2a16a1437d66af95b7	698,566.91917884	0.0699%	
10	 PancakeSwap V2: BSC-USD-CGU	641,193.93658356	0.0641%	

source:<https://bscscan.com/>

# SECURITY ASSESSMENT

# SECURITY ISSUES

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No high severity issues found.

### Low Severity Issues

#### 1. Too many digits

Literals with many digits are difficult to read and review

**Contract:** CGUToken.sol

**Function:** init

**Recommendation:** Please consider using scientific notation (ie: 1e9 instead of 1000000000).

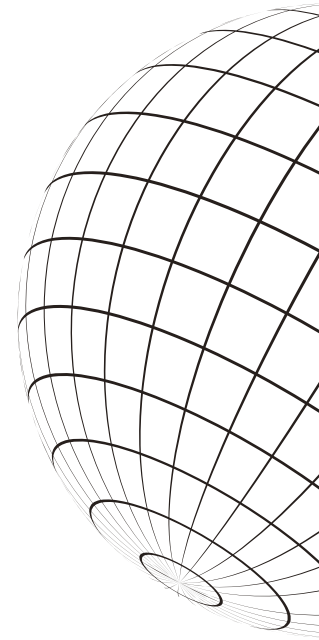
#### 2. A public function that could be declared external.

public functions that are never called by the contract should be declared **external** to save gas

**Contract:** CGUToken.sol

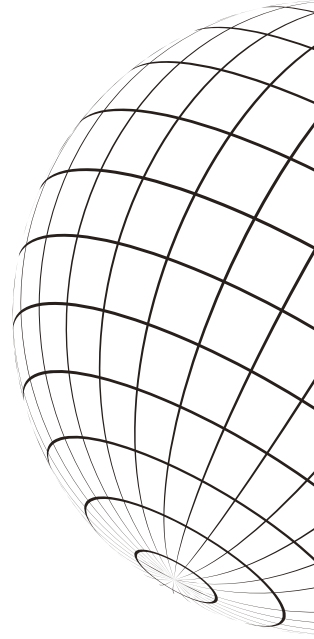
**Functions:** transferAndCall, getLockedAmount

**Recommendation:** Use the external attribute for functions never called from the contract.



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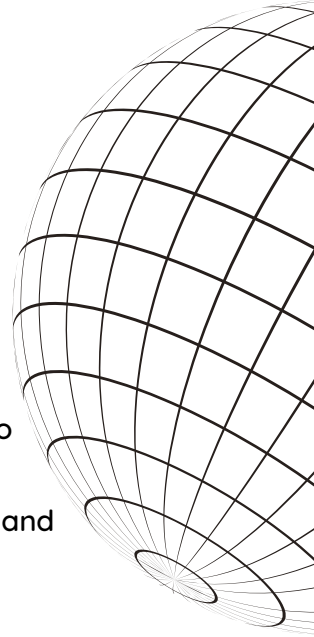
**SECURITY ASSESMENT**  
**TOKEN LOGO**



# SECURITY ASSESMENT CONCLUSION

Smart contracts contain owner privileges!

Motech Audit 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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