



SMART CONTRACT SECURITY AUDIT

Guinness

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Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;
2. Manual analysis of smart contracts:
 - Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
 - Hashes of all transaction will be recorded
 - Behaviour of functions and gas consumption is noted, as well.
3. Unit Testing:
 - Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
 - In this phase intended behaviour of smart contract is verified.
 - In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
 - Gas limits of functions will be verified in this stage.
4. Automated Testing:
 - Mythril
 - Oyente
 - Manticore
 - Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 20.05.2022

Contract Name: **Gns**

Deployed address: **0x5eF447Ffb316719Ac5FF82079B2379020fCE01Ec**

Total Supply: **2,099,955,698.1**

Token Tracker: **GNS**

Decimals: **18**

Token holders: **120**

Transactions count: **1 534**

Top 100 holders dominance: **100.00%**

Audit Details



Project Name: **Guinness**

Language: **Solidity**

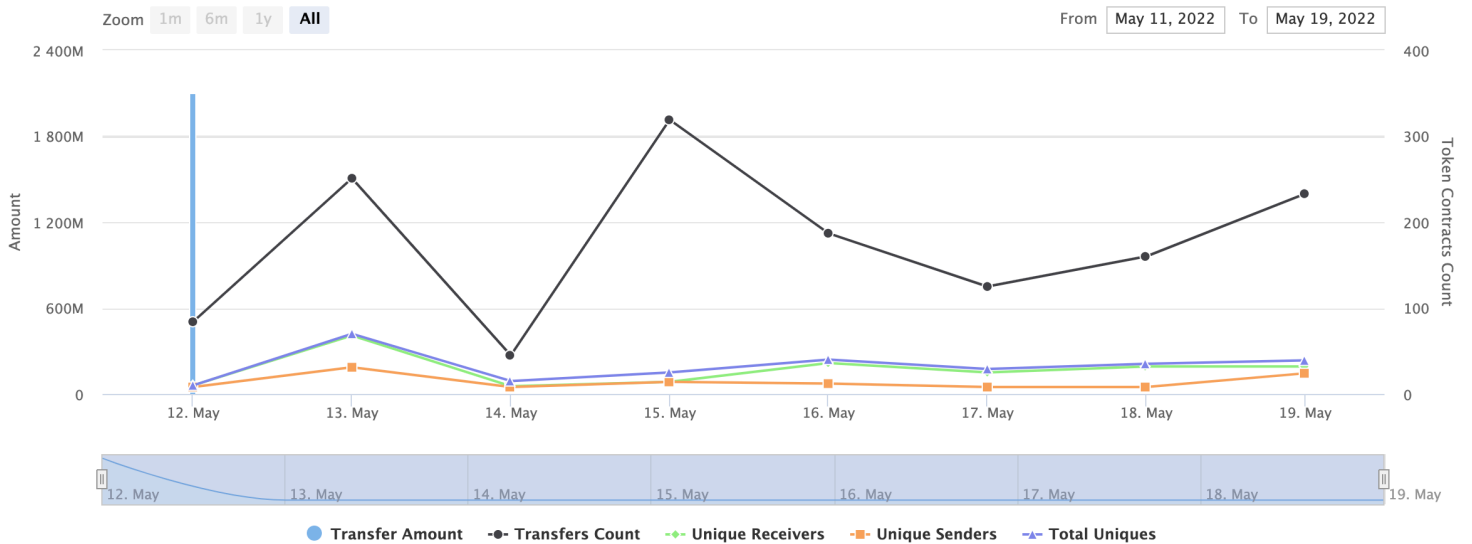
Compiler Version: **v0.8.7**

Blockchain: **BSC**

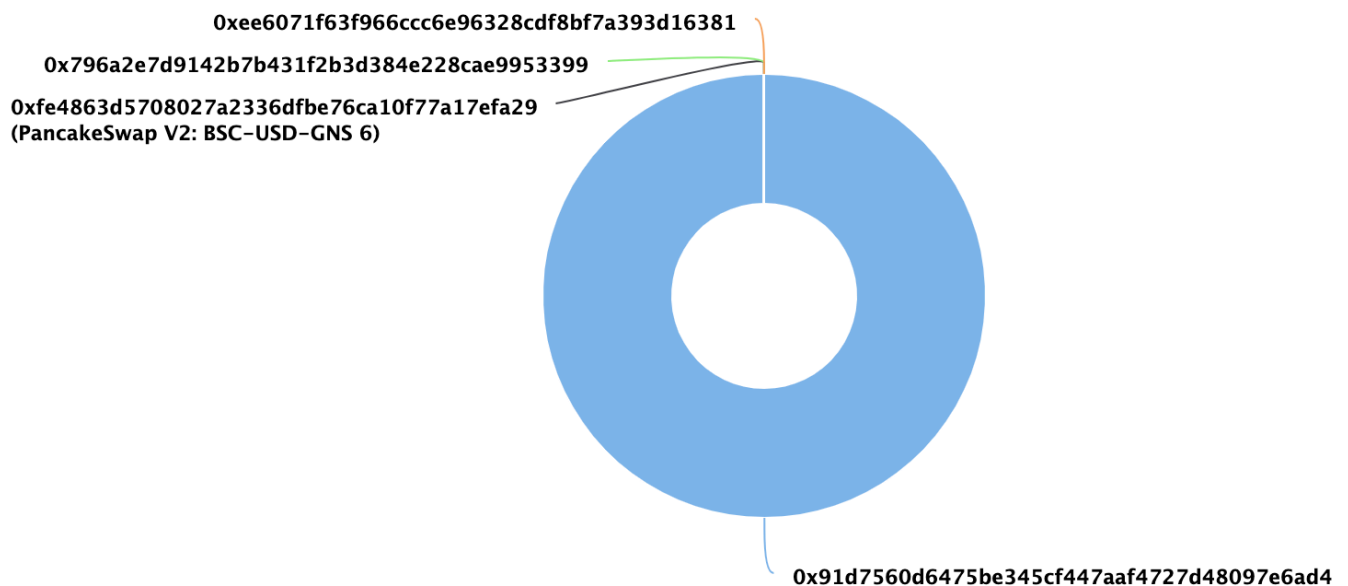
Social Profiles

Project Website: www.guinness.mobi

Contract Analytics



GNS Token Distribution



GNS Top Holders

Rank	Address	Quantity (Token)	Percentage
1	0x91d7560d6475be345cf447aaf4727d48097e6ad4	2,099,190,209.3	99.9635%
2	PancakeSwap V2: BSC-USD-GNS 6	568,288.856484408465028991	0.0271%
3	0x796a2e7d9142b7b431f2b3d384e228cae9953399	50,000	0.0024%
4	0xee6071f63f966ccc6e96328cdf8b77a393d16381	50,000	0.0024%
5	0xb6b1dfdc8e33d6dc28d1d7c65ef5a335ac6827b8	22,310.651770038977085319	0.0011%
6	0x7cf14214f2d8099b41c7b66acd03f81e8a040180	21,449.185868010300008043	0.0010%
7	0x06cf4437765ab121aacc877e76d3de2fbcee2e98	8,955.564574920035836042	0.0004%
8	📄 0xa543095a23a2a035fac92f7e48f88ed24cd94363	8,894.755272277421209167	0.0004%
9	0x4be1bc0f9b7cfd9fac448aad7a17f30207ff17b6	7,200	0.0003%
10	0xf83a259b5649d236ba06027fa14b71493060c8c5	5,625	0.0003%

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Compiler Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Security Issues

1) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, disable selling or mint new tokens).

2) Loop consuming excessive gas: L762 - 771

```

762     for (uint256 i = 0; i < addresses.length; i++) {
763         SCCC1 = SCCC1 + IERC20(tokenUsdtLp).balanceOf(addresses[i]);
764     }
765     if(SCCC1>0){
766         for (uint256 j = 0; j < addresses.length; j++) {
767             if(addresses[j] != address(0)){
768                 uint propor = IERC20(tokenUsdtLp).balanceOf(addresses[j]).mul(num).div(SCCC1);
769                 bonusAddress[addresses[j]] = bonusAddress[addresses[j]].add(propor);
770             }
771         }

```

Ethereum is a very resource-constrained environment. Prices per computational step are orders of magnitude higher than with centralized providers. Moreover, Ethereum miners impose a limit on the total number of Gas consumed in a block. If `addresses.length` is large enough, the function exceeds the block gas limit, and transactions calling it will never be confirmed.

Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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