



SMART CONTRACT SECURITY AUDIT

World Causecoin Staking

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Website: soken.io

Table of Contents

Table of Contents	2
Disclaimer	3
Procedure	4
Terminology	5
Limitations	5
Token Contract Details for 13.07.2022	6
Audit Details	6
Social Profiles	6
Vulnerabilities checking	7
Security Issues	8
Conclusion	9
Soken Contact Info	10

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 13.07.2022

Audit Details



Project Name: **World Causecoin**

Language: **Solidity**

Blockchain: **BSC**

Social Profiles

Project Website: **<https://worldcausecoin.com/>**

Project Twitter: **<https://twitter.com/WorldCausecoin>**

Project Telegram: **https://t.me/world_causecoin**

Project Facebook: **<https://www.facebook.com/WorldCausecoin>**

Project Medium: **https://medium.com/@worldcausecoin_95021**

Project LinkedIn: **<https://www.linkedin.com/in/world-causecoin-651281214/>**

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) Unprotected withdrawal - Medium-severity

Tokens are the basis of smart contracts on which the contract runs and executes transactions. Therefore, it is absolutely necessary to have input and access control validations on the functions executing funds withdrawal within the contract. The following unprotected public and external functions were found which were accepting addresses controlled by external users.

```
264     function transferContractCause () onlyAdmin inEmergency public{
265         uint StakingContractBalance=cause.balanceOf(address(this));
266         cause.transfer(admin, StakingContractBalance);
267     }
268 }
```

Recommendation:

It is recommended to go through the functions and make sure that the ether withdrawal implements an access control, input validation, and/or that the funds of the user is depreciated after they withdraws the amount.

Conclusion

Smart contracts are free from any critical-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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