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Audit Report for Ga Mee Global Limited - September 30, 2022

Summary

Audit Report prepared by Solidified covering the GAMEE Token smart contract.

Process and Delivery

Two (2) independent Solidified experts performed an unbiased and isolated audit of the code. The debrief was on 30 September 2022.

Audited Files

The source code has been supplied in the form of verified smart contracts on PolygonScan:

https://polygonscan.com/address/0xcf32822ff397Ef82425153a9dcb726E5fF61DCA7#code

Intended Behavior

The smart contracts implement an ERC-20 token with deposit and withdrawal functionality. The token also uses the Animoca-developed Universalforwarder for meta-transactions.

Code Complexity and Test Coverage

Smart contract audits are an important step to improve the security of smart contracts and can find many issues. However, auditing complex codebases have their limits and a remaining risk is present (see disclaimer).

Users of a smart contract system should exercise caution. In order to help with the evaluation of the remaining risk, we provide a measure of the following key indicators: **code complexity**, **code readability**, **level of documentation**, and **test coverage**.

Note that high complexity or lower test coverage does equate to a higher risk. Certain bugs are more easily detected in unit testing than a security audit and vice versa. It is, therefore, more likely that undetected issues remain if the test coverage is low or non-existent.

Criteria	Status	Comment
Code complexity	Low	-
Code readability and clarity	High	-
Level of Documentation	High	-
Test Coverage	-	-

Issues Found

Solidified found that the GAMEE token contracts contain no critical issues, no major issues, no minor issues. Two informational notes have been identified.

Issue #	Description	Severity	Status
1	Tokens sent using transfer method is not escrowed	Informational	-
2	Consider updating Solidity compiler version	Informational	-

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Critical Issues

No issues found

Major Issues

No issues found

Minor Issues

No issues found

Notes

1. Tokens sent using transfer method is not escrowed

The token allows escrowing using `deposit` and `withdraw` functions. Any tokens transferred to the token contract with the help of `safeTransfer` is also counted towards escrow. But a user can transfer the tokens to the contract address using the regular `transfer` method which will not be counted towards the escrow.

Recommendation

This is noted in the report to make the developers aware of the possibility. This is not an issue in the current implementation especially since the contract has a `recoverERC20s` method.

2. Consider updating Solidity compiler version

The codebase allows compiler versions from 0.7.6 to <0.8.0. However, there have been a number of security-related updates to the Solidity compiler since then.

Recommendation

Consider using compiler versions 0.8.10 or above, since the more recent versions included important security fixes.

Disclaimer

Solidified audit is not a security warranty, investment advice, or an endorsement of Ga Mee Global Limited or its products. This audit does not provide a security or correctness guarantee of the audited smart contract. Securing smart contracts is a multistep process, therefore running a bug bounty program as a complement to this audit is strongly recommended.

The individual audit reports are anonymized and combined during a debrief process, in order to provide an unbiased delivery and protect the auditors of Solidified platform from legal and financial liability.

Oak Security GmbH