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Audit Report for SingularityNET - April 22, 2021

Summary

Audit Report prepared by Solidified covering the SingularityNET AGI token smart contract.

Process and Delivery

Three (3) independent Solidified experts performed an unbiased and isolated audit of the code below. The final debrief took place on April 22, 2021, and the results are presented here.

Audited Files

The source code has been supplied in a private source code repository:

https://github.com/singnet/agi-v2

Commit number: `212398ff876c42c7c873dc1b395af3c14a89afdb`

Intended Behavior

The smart contract implements an ERC-20 token with the following additions

- Mint and burning functionality.
- A privileged minter role that can mint tokens
- A privileged pauser role that can pause the token

Findings

Smart contract audits are an important step to improve the security of smart contracts and can find many issues. However, auditing complex codebases has its 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 not necessarily equate to a higher risk, although certain bugs are more easily detected in unit testing than a security audit and vice versa.

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

Issues Found

Solidified found that the SingularityNET AGI token contract contains no critical issue, no major issue, no minor issues, and one informational note.

We recommend issues are amended, while informational notes are up to the team's discretion, as they refer to best practices.

Issue #	Description	Severity	Status
1	Left-over commented code	Note	-

Critical Issues

No critical issues have been found.

Major Issues

No major issues have been found.

Minor Issues

No minor issues have been found.

Informational Notes

1. Function mint() contains left-over commented code

Function `mint()` contains some leftover code from a previous version that has been commented out. Since the commented code refers to a mint limit, it may be confusing to the reader.

Recommendation
Consider removing the leftover comments.

Disclaimer

Solidified audit is not a security warranty, investment advice, or an endorsement of SingularityNET 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.

Solidified Technologies Inc.