



## Audit Report for The Sandbox Permit Token Extension Contract - March 8, 2021

### Summary

Audit Report prepared by Solidified covering the Sandbox extension contract adding permit functionality to the Sandbox ERC-20 token contract.

### Process and Delivery

Two (2) independent Solidified experts performed an unbiased and isolated audit of the code below. The debrief took place on March 8, 2021, and the results are presented here.

### Audited Files

The following contracts were covered during the audit:

[https://github.com/thesandboxgame/sandbox-smart-contracts/blob/audit/20210304\\_sand\\_permit/src/solc\\_0.7/Permit/Permit.sol](https://github.com/thesandboxgame/sandbox-smart-contracts/blob/audit/20210304_sand_permit/src/solc_0.7/Permit/Permit.sol)

Commit number: `34956b4c3fcbb94c0c30596d38d4249391beab31`

### Intended Behavior

The audited contract adds a `permit()` function allowing token holders to authorize transfers with off-chain signatures. The code is intended to work with the extension contract being given admin rights that allow `approveFor()` to be invoked.

## Executive Summary

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	Medium	-
Code readability and clarity	High	-
Level of Documentation	Medium	-
Test Coverage	High	-



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## Issues Found

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Solidified found no critical issues, no major issues, no minor issue.

## Critical Issues

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No critical issues have been found.

## Major Issues

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No major issues have been found.

## Minor Issues

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No minor issues have been found.

## Notes

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No additional observations.



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## **Disclaimer**

Solidified audit is not a security warranty, investment advice, or an endorsement of TSB GAMING LTD 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.*