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Executive Summary Report to Pineapple Games Ltd

Pineapple Games' RNG

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Executive Summary

This report summarises the testing of Pineapple Games' Random Number Generator (RNG).

The scope of the test was the software elements of the RNG only; source code and a test harness for empirical testing were supplied. The containing platform was not supplied and the submission did not include failure monitoring systems, so the RNG software has been assessed (in isolation) against industry best practice for technical compliance.

In order to assess the suitability of the RNG for the purpose of supplying outcomes to games, raw data and 52 card shuffled decks were generated. Our assessment methods included statistical analysis of the outputs and source code review.

The outputs of the RNG were determined to be acceptably random for the degrees of freedom assessed and also from a bitwise perspective. Based on the selection of tests executed it is our assessment that the RNG is suitable for the production of random numbers for use in gaming applications requiring 52 card decks.

Under normal operating conditions in which sufficient system entropy was available, the RNG outputs were determined to be acceptably random, unpredictable and not reproducible.

No issues are raised, and the RNG is deemed suitable for use in corresponding gaming applications.

Authorised By 
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