



Gaming Associates

Compliance Certificate

Random Number Generator (RNG)

Certificate Reference – PSN-RO-250221-01-RC-C1

Compliance Status – Compliant

Date of Certification – 21-02-2025

Manufacturer	Playson Limited (Playson) Valletta Buildings, Second Floor, Suite 7 South Street Valletta, VLT 1137, Malta VAT Number: MT21865409
Testing Laboratory	Gaming Associates Europe Ltd www.gamingassociates.com • 178 Merton High Street, London SW19 1AY, United Kingdom • Office 7, 82 London Road, Leicester, LE2 0QR, United Kingdom • Hamngatan 27 101 33 Stockholm, Sweden
Jurisdiction	Oficiul Național pentru Jocuri de Noroc, România
Certification criteria:	Government Decision No. 93/2016 for the approval of mandatory provisions for the certification and auditing of remote gambling systems, No. 111/2016 for the approval of the Methodological Norms for the implementation of Government Emergency Ordinance No. 77/2009 on the organisation and operation of gambling games and for the modification and completion of Government Decision No. 298/2013 regarding the organisation and functioning of the National Gambling Office, amending Government Decision No. 870/2009 approving the Methodological Norms for the application of Government Emergency Ordinance No. 77/2009 and repealing Government Decision No. 870/2009 on the organisation and operation of gambling, according to the provisions stipulated in art. 140 (2), as well as Annex 7, Chapter II, 6, on the theoretical Return to Player (RTP) and the Random Number Generator (RNG).

	Emergency Ordinance No. 82/2023 of October 5, 2023 for the amendment and completion of Government Emergency Ordinance no. 77/2009 regarding the organization and operation of gambling
Date of Testing	22-01-2025 to 31-01-2025
Test Supervisor	Aftab Rizvi
Assessor	Moona Siddiqui

Description of the Change or Correction in Certification

This is a new certification.

Test Summary

Product Details – Random Number Generator (RNG)	
Mode	TRNG (True-random number generator)
RNG Description	The Playson Limited HRNG is a three-component solution consisting of a CGI script, an HRNG server, and a Quantis board. Our server connects to the Quantis board to retrieve true random numbers, which are generated using quantum photon detection. The scaling is based on direct hardware-generated randomness; no post-processing scaling required. No external seeding needed; entropy is derived directly from quantum photon behavior. The period of HRNG is infinite (true random, non-deterministic, no repeating cycle). The HRNG meets NIST SP 800-90A/B/C and AIS 31 standards; provides high-entropy, unpredictable random output suitable for cryptographic applications.
Statistical tests performed:	The random numbers generated by this TRNG passed the "diehard" Marsaglia tests on statistical randomization. The random number generator (RNG), scaling, and mapping algorithms used to determine the results for casino games are an integral part of Playson's online gaming software. TRNG and its components were evaluated according to the requirements of the National Gambling Office, Romania

Product Fingerprint

Critical Component	Version	Description	SHA-1 Hashes
datasource.cgi	5.290.1	The script that receives midrange from HRNGSERVER via a socket and sends them on request via HTTP.	SHA-1 7776ae0b0913665e83c5ea963a41941a76a6477f SHA-256 2d0442eeb44fd3618a57986fcdf1dc613890ac761f109eb57e15bedb32673bf5
hrng_server	5.290.1	The server that receives the midrange from the LNG and sends them on request via the socket.	SHA-1 93ba0907ff262542f546136ea2376dbce9bfe7cc SHA-256 b9dc9e29519e50a716d87851654d8ee3343c62fd95e5c3d6e76fbbb10ea1104a

Conclusions and Recommendations

Subject to the scope of testing and based on testing performed by **ga** for client's RNG provided, has formed an opinion that the assessed TRNG conforms with best practice certification criteria accepted in high-level jurisdictions.

Aftab Rizvi

aftab.rizvi@gamingassociates.com

21-02-2025