The Danish Gambling Authority's Certification Programme for betting and online casino

Requirements for RNG – SCP.01.00.EN.1.1

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Objectives of requirements for RNG

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The requirements for RNG shall ensure that random functions are actually random, there are established procedures in case of errors with the RNG and, necessary security measures are made.

This document only contains testing requirements. From each requirement it is shown if the requirement is to be tested. These requirements are marked with: **[TEST].** See also section 2.2.1 Requirements for testing organisations.

1.1   Version

The Danish Gambling Authority continuously revises the certification programme for betting and online casino. The latest version is accessible at The Danish Gambling Authority's website.

Version 1.0 of 2025.01.01
*   First version of the document Requirements for RNG, which is based on the previous testing standards. Contrary to the testing standards this document exclusively contains requirements for RNG. Several sections have been updated in relation to game suppliers and games register. The section on supervision and attesting has been updated.

Version 1.1 of 2026.03.18
*   The document is updated, since it is no longer a requirement to have the RNG tested annually. Section 2.1.1 and 2.1.2 is changed. The former section 2.1.3 about the option to postpone a certification is deleted, sinces this is no longer relevant.

When a new version of the certification programme is released, The Danish Gambling Authority will, if necessary, publish guidelines for a transition period and validity of already completed tests.

It must be emphasised that only the Danish version is legally binding. The English version holds the status of guidance only.

1.2   Applicability

This document is applicable for the supply of RNG (§ 24a in the Danish Gambling Act) to licence holders. The document is also applicable for licence holders with their own RNG used for offering their own betting products or casino games.

Frequency and testing organisations

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2.1   Certification frequency

Game supplier and licence holder who have their own RNG, are responsible for ensuring that their RNG is always certified in accordance with the requirements in this document.

2.1.1   First test of RNG and upload of certificate

Game suppliers and licence holders who have their own RNG shall ensure that their RNG is tested the first time before it can be is used on the Danish market.

As documentation for the test, the standard report to SCP.01.00 shall be used. The standard report constitutes an RNG certificate.

Information about the RNG and the certificate shall be uploaded to the Danish Gambling Authority's games register before the RNG is used on the Danish market. Se guidance on upload at the Danish Gambling Authority's website.

2.1.2   Renewed test of RNG and upload of certificate

Game supplier or licence holder who have their own RNG shall ensure that a new test of the RNG is completed in the event of a change to the RNG's defined component(s) classified in accordance with document "SCP.06.00 – Change management programme".

This means that renewed test of the RNG is not required unless changes are made to the RNG.

As documentation for renewed test of the RNG in connection with changes to RNG components the standard report for SCP.01.00 shall be used. The standard report constitutes an RNG-certificate.

The new RNG-certificate shall be uploaded to the Danish Gambling Authority's games register and connected to the relevant RNG, before the changed RNG is taken into use on the Danish market. Se guidance on upload at the Danish Gambling Authority's website.

2.2   Accredited testing organisations

To ensure that the necessary qualifications are in place, when the test is completed, the testing organisation and their staff shall fulfil the requirements in this section.

2.2.1   Requirements for testing organisations

Test of RNG shall be conducted as accredited testing by a lab, who is accredited after ISO/IEC 17025 or ISO/IEC 17065 referring to The Danish Gambling Authority's Certification Programme for betting and online casino SCP.01.00.DK.

Accreditation shall be done by DANAK (the Danish Accreditation Fund) or a similar accreditation body, who is co-signer of EA's (European co-operation for Accreditation) multilateral agreement on reciprocal recognition regarding testing, or for labs outside EA's jurisdiction, by an accreditation body, who is co-signer of ILAC's (the International Laboratory Accreditation Cooperation) multilateral agreement on reciprocal recognition regarding testing.

Documentation for the accreditation shall be enclosed with the certification. Alternatively, a link to the accreditation can be provided in the certification report.

2.2.2   Requirements for personnel who performs the test

The test shall be carried out by staff with sufficient qualifications cf. section 6 in ISO/IEC 17025 or ISO/IEC 17065, which means that the accredited testing organisation shall hire and educate sufficiently qualified, competent, and experienced personnel.

2.2.3   Supervision and attest of the standard report

Testing shall be supervised cf. the requirements for supervision in section 2.3 in the general requirements. It is the supervisers responsibility to sign the standard report, and thereby warrant that testing has been completed in an appropriate professional manner.

Random Number Generator (RNG)

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3.1   RNG Requirements

3.1.1   Random Number Generator suitability for generating results and other functionalities with elements of randomness.

1	[TEST] The RNG shall be generally recognised as being a cryptographically strong source for drawing random numbers.
2	[TEST] The RNG output shall pass one of the following statistical tests: • The DIEHARDER test suite • The NIST (National Institute of Standards and Technology) Statistical Test Suite, or • A similar test suite of the same level. The tests shall be conducted on a data set, which the accredited testing organisation considers to be sufficient for securing statistical valid results.

3.1.2   Error control procedures

1	[TEST] In case of errors on the RNG output, including missing output, the RNG must be deactivated. Guidance: It is possible to switch to a backup RNG, provided that it complies with the requirements set for the RNG in this document.

3.1.3   Seeding

1	[TEST] The gambling system shall secure the RNG output by applying an appropriate and efficient method for seeding and re-seeding.