



Certification standard report
Online casino
Testing standards – SCP.01.03.EN

Standard report for testing standards for online casino

Licensee	Name	Telephone number
	Thunderkick Malta Ltd	-
	Address	
	Level 5, The Mall Complex	
	Postal code and city	CVR-/SE-no.
	Floriana, Malta	N.A.
	Contact person/E-mail address	
	Mr. Sven Grip, Mr. Stéphane Redon, Mr. Johnny Aspelin, Mr. Daniel Gjørwell, Ms. Jeanette Karlsson, Mr. Wan Kim (wan.kim@thunderkick.com)	

Certification dates	Previous certification	Current certification	Expected date for the <i>next</i> certification
	24/04/2018	17/06/2019	24/04/2020

Testing organisation	Name	Telephone number
	QUINEL Limited	+356 2713 1412
	Address	
	Marina Court, Flat 8, Triq Giuseppe Cali'	
	Postal code and city	CVR-/SE-no.
	XBX 1421 Ta' Xbiex – Malta	N.A.
	Contact person/E-mail address	
	Davide De Nobile, Technical Director, davide@quinel.com.mt	
	Does the testing organisation have a valid accreditation?	
	Yes, enclose documentation <u> X </u> No <u> </u>	

Testing organisation's supplier

Must only be filled in if the testing organisation is using a supplier to perform the certification.

Name	
Address	
Postal code and city	

The employee(s) shall ensure that the certification is carried out to adequate professional standards and shall supervise and attest the certification. A number of employees who in conjunction fulfil the requirements can supervise and attest the certification together.

Employee

Name	Telephone number
<i>Fabio Valenti</i>	<i>+356 2713 1412</i>
Address	
<i>Marina Court, Flat 8, Triq Giuseppe Cali'</i>	
Postal code and city	CPR-/ID-no.
<i>XBX 1421 Ta'Xbiex – Malta</i>	<i>N.A.</i>
E-mail address	
<i>fabio.valenti@quinel.com.mt</i>	

Employee

Name	Telephone number
Address	
Postal code and city	CPR-/ID-no.
E-mail address	

Requirements for employees

a) For the testing of the Random Number Generator the supervisor shall have a relevant master's or PhD degree or in other ways be able to prove relevant qualifications

Name	
<i>Fabio Valenti</i>	
Education	Period
<i>B.Sc. electronic engineering</i>	<i>2008-2013</i>
Qualifications and experience with testing gambling systems	Period
<i>Quinel</i>	<i>2013-today</i>

b) For the testing of other gambling functions, the supervisor shall have a relevant educational background or in other ways be able to prove relevant qualifications

Name	
<i>Joseph Landry Lachunou Mougoue</i>	
Education	Period
<i>Master's in electronic engineering</i>	<i>1998 - 2004</i>
Other relevant qualifications	Period
<i>ISACA – CISA</i>	<i>2019 - today</i>
<i>ISACA – CISM</i>	<i>2019 - today</i>

Does the employee have five years of professional experience in testing gambling systems or a similar subject for an accredited or certified organisation?

Yes ☒ X No, fill in section c) _____

c) Information concerning a supervisor with five years of professional experience in inspecting gambling systems or a similar closely related subject area for an accredited or certified organization

Name	
Education	
Period	
Qualifications and experience with testing gambling systems	Period

Supplier

It is the responsibility of the licence holder that their supplier(s) are certified. The testing organisation shall ensure that the supplier(s) of the licence holder is/are certified to the Danish certification programme in a period covering the previous certification on to the current certification.

Is/are the supplier(s) of the licence holder certified?

Yes, documentation has been presented ____ No ____

Name of the supplier of the licence holder

Name of the supplier of the licence holder

Name of the supplier of the licence holder

Name of the supplier of the licence holder

Name of the supplier of the licence holder

3 Requirements for the testing of gambling functionality

It shall be recorded whether a requirement has passed testing or not. If the test of the requirement is not passed it must be recorded below and the appendix must be used. Here the reason for the failed test must be described and when the failure was or is expected to be remedied. It is important that all failed tests are recorded, even if the failure has been remedied before the submission of the certification report. A description of the requirements can be found in the *Testing Standards for Online Casino*.

3.1 Deriving game symbols and events

3.1.1 Random Number Generator suitability for generating results

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.1.1.1					[X]
3.1.1.2					[X]
3.1.1.3					[X]
3.1.1.4					[X]
3.1.1.5					[X]
3.1.1.6					[X]
3.1.1.7					[X]

3.1.2 Random Number Generator suitability for functionality other than generating results

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.1.2.1					[X]
3.1.2.2					[X]
3.1.2.3					[X]
3.1.2.4					[X]
3.1.2.5					[X]
3.1.2.6					[X]
3.1.2.7					[X]

3.1.3 Degrees of freedom and mapping

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.1.3.1					[X]
3.1.3.2					[X]
3.1.3.3					[X]
3.1.3.4					[X]
3.1.3.5					[X]
3.1.3.6					[X]
3.1.3.7					[X]

3.1.4 Error control procedures

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.1.4.1					[X]
3.1.4.2					[X]

3.1.5 Seeding

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.1.5.1					[X]

3.1.6 Security

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.1.6.1					[X]

3.2 Gambling functionality

3.2.1 General

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.2.1.1	[X]				

3.2.2 Games without stakes

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.2.2.1	[X]				

3.2.3 Accurate representation of chance

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.2.3.1	<input checked="" type="checkbox"/>				
3.2.3.2	<input checked="" type="checkbox"/>				
3.2.3.3	<input checked="" type="checkbox"/>				
3.2.3.4					<input checked="" type="checkbox"/>

3.3 Jackpots

3.3. Jackpots

Req.	Pass	Pass Remedied (submit detail)	Pass Risk assessment (submit detail)	No (submit detail)	N/A (submit detail)
3.3.1.1					<input checked="" type="checkbox"/>
3.3.1.2					<input checked="" type="checkbox"/>
3.3.1.3					<input checked="" type="checkbox"/>
3.3.1.4					<input checked="" type="checkbox"/>
3.3.1.5					<input checked="" type="checkbox"/>

Further information

Other information relevant for the Danish Gambling Authority shall be stated in the appendix.

Declaration and signature

By my signature below I declare that the information supplied in this certification report is correct. I acknowledge that missing information or deliberate misinformation can lead to the certification report being rejected. Any changes in the supplied information shall be forwarded to the Danish Gambling Authority without delay.

Date

Signature

17/06/2019


Certification standard report – Appendix

Online Casino

Testing standards - SCP.01.03.EN

Appendix to standard report for testing standards for online casino

Req.	Req. status	Comments
3.1.*	N.A.	Refer to compliance Report ID: “MDI 02-17 SCP.01.03.EN.1.1.SR J18090447 R001_REV.1” for results of testing performed over core RNG testing.
3.2.3.4	N.A.	Not applicable for this game type
3.3.*	N.A.	Not applicable for this game type

Product Tested and Critical files

Test item	Flux
Test item type	Slot game
Jackpot	No
Test item code	G006
Test item release	client release 2.3.0; Server version: 3.5.0; RNG vers: 3.5.0 HTML5 (Desktop & Mobile)
Test item payout	96.20%
Submission Date	12/04/2019
Test date	24/05/2019 - 17/06/2019

SHA1	Critical	Type (Game)	Test item	File name
58ad3629cb44c82d1208f1aad26006045f5c3722	Yes	Configuration	G006	game.slot.vanilla.starvector.json
a8fb2357b95263d7cc8dd5417832410b8bc3f1	Yes	Game Logic	G006	gp-game-vanilla-starvector-3.5.0-RELEASE.jar
d5e01a5f41deac3b63b46b2ccb7125278e3ebc29	Yes	RNG (*)	N.A.	MersenneTwister32.java
ea8940a1cd7d561eb944c42f101ddfd7cce2ec7	Yes	RNG (*)	N.A.	RandomNumberGenerator.java
f2dcd4e8ed46eb5653d99ff54f60c4e4047ad4ec	Yes	RNG	All	gp-rng-3.5.0-RELEASE.jar
ea01386be069745202580bd50c3de32c33f3553f	Yes	RNG	All	gp-rng-api-3.5.0-RELEASE.jar

(*) RNG main source code files.

Report revisions

N/A
