

RANDOMNESS EVALUATION REPORT

FOR

NG ENTERTAINMENT LTD.
QUEENS OF AFRICA, HTML5-DESKTOP, 1.0

CONFIDENTIAL
CERTIFICATE NUMBER: E216005NTGMLTM



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SECTION 1. GENERAL INFORMATION

License Holder:	NG Entertainment Ltd.
	97 Windsor Street

Sliema SLM 1853

Malta

Game Name: Queens of Africa

Game Type: Slot

Platform Type: HTML5-Desktop

Game Version: 1.0

Applicable Technical Standards: Licensing requirements of the Malta Gaming Authority ('MGA')

Subsidiary Legislation 438.04 Remote Gaming Regulations Third Schedule, Regulation 25

Testing Laboratory: eGaming Compliance Services Limited, trading as 'eCOGRA'

2/F Berkeley Square House

Berkeley Square London W1J 6 BD United Kingdom

Test Engineers: Joanne Johnson; Sumeshan Padayachee; Janine Odayan; Sphamandla

Langa

Supervisor: Filipe Alves

Request for Report: 23 July 2021

Report Date: 29 July 2021

Certificate Number: e216005NTGMLTM



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In our opinion the game listed as tested in this report complies with the relevant sections of the licensing requirements of the Malta Gaming Authority ('MGA').

The test results obtained for NG Entertainment Ltd.'s Queens of Africa HTML5-Desktop 1.0 game produced statistically acceptable random numbers that were free of any significant statistical bias or predictability.

Gary Lupton-Smith,

Technical Services Manager



$\begin{tabular}{ll} \textbf{Malta Gaming Authority - Randomness Evaluation Report} \\ \textbf{NG Entertainment Ltd.} \\ \end{tabular}$

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SECTION 2. INTRODUCTION

eCOGRA has been appointed by NG Entertainment Ltd. to evaluate and certify the following Slot game for compliance with the relevant licensing requirements Subsidiary Legislation 438.04 Remote Gaming Regulations, Third Schedule, Regulation 25 of the Malta Gaming Authority ('MGA').

Queens of Africa (1.0) - NG Entertainment Ltd.

This certification report highlights our key findings as a result of the evaluation conducted on HTML5-Desktop, 1.0, which is the pre-production environment which is essentially the same as the live environment. The testing was conducted on the aforementioned platform established at NG Entertainment Ltd. during the period 23 July 2021 to 29 July 2021.

Please note that this is an initial certification conducted over Queens of Africa, HTML5-Desktop, 1.0 and therefore this game certificate does not supersede any previous certifications.



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SECTION 3. RNG COMPONENTS

The Random Number Generator (RNG) as detailed in Section 2 and used by NG Entertainment Ltd. in their Queens of Africa 1.0 product was previously certified by GLI (Refer to RNG report: 413/19/001/UK/RTS/02). The scope of eCOGRA's randomness testing was limited to testing the randomness of the game output of the Queens of Africa 1.0 game.

Software Provider:	
Software Provider Address:	
Product Name:	
Product Description:	
Jurisdiction:	
Jurisdiction address:	Refer to GLI RNG report: 413/19/001/UK/RTS/02
Test entity:	
Test entity address:	
Date:	
Approval:	



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SECTION 4. TEST RESULTS

Numerous recognised statistical and mathematical tests were performed on a 1,000,000 rows of sample data, provided by NG Entertainment Ltd., of the game output to verify the RNG operates in a random and fair manner. This included tests for probability (to ensure the expected number of occurrences), randomness (so that the following occurrence cannot be predicted with any degree of certainty) and uniformity (to determine that each possible outcome is equally likely over the long-term). The acceptance criteria for the statistical tests is a pass at a 95% confidence level.



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SECTION 5. GAME DESCRIPTION

Queens of Africa (1.0)

Game Description:

Queens of Africa is an online slot game played on 15 paylines, featuring a "Bonus Game" and "Mystery Replace" Features.

Further details regarding the betting characteristics, features and detailed game rules can be found in the game instructions which can be provided upon request.



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SECTION 6. PERCENTAGE RETURN TO PLAYER ('RTP')

Game Name Theoretical RTP %		eCOGRA RTP % Recalculation	
Queens of Africa	95.93%	95.80%	

The Theoretical RTP percentage indicated in the table above is extracted from the game documentation as provided by NG Entertainment Ltd. eCOGRA recalculated the RTP percentage by performing additional independent mathematical calculations on the output of simulation game data.



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SECTION 7. GAME SOFTWARE DETAILS

The scope of the game evaluation and certification applies solely to the critical game files, game versions and associated hashes provided in the tables below:

Game Files

File Name / Identifier	Version Date	Version Number	SHA-1 Hash Sum
configuration.txt	7/22/2021	1.0	F9B5EDF85D4BA382E9D9A1E7B478E3A2C1DE20A5
line wins handler.inc	1/20/2020	1.0	4265BFE2ACF6549D2A8C2708DDCCC26E6657D396



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SECTION 8. REVIEW FINDINGS

Rei	mote Gar	ming Regulations	Rating	Comments
		Third Schedule - Regulation 25 -	_	nt for gaming system
			aming system must:	<u> </u>
	a.	faithfully follow the game rules published by the operator; and	Compliant	
	b.	provide over time no more than the	Not applicable	Not applicable to this game type
	D.	expected house advantage to the	пос аррпсавіе	Not applicable to this game type.
		operator.		
2.	Both th	e gaming and financial transactions	Not applicable	The scope of assessment is limited to
	must be	e congruent and secure.		aspects directly managed by the
				supplier.
	3.	The gaming system must satisfy the fo		
	a.	the data must be randomly	Compliant	Refer to RNG certificate:
		generated, passing appropriate		413/19/001/UK/RTS/02
	b.	statistical tests of randomness; the data must be unpredictable, i.e. it	Compliant	Refer to RNG certificate:
	D.	must be computationally infeasible to	Compilant	413/19/001/UK/RTS/02
		predict what the next number will be,		413/13/001/08/813/02
		given complete knowledge of the		
		algorithm or hardware generating the		
		sequence, and all previously		
		generated numbers;		
	c.	the series cannot be reliably	Compliant	Refer to RNG certificate:
		reproduced, i.e. if the sequence		413/19/001/UK/RTS/02
		generator is activated again with the		
		same input (as exactly as is		
		reasonably possible) it will produce		
		two completely unrelated random		
4.	The aut	sequences. come of any game event, and the	Compliant	Refer to RNG certificate:
4.		to the player, must be independent of	Compilant	413/19/001/UK/RTS/02
		J, memory, disk or other components		413/13/001/01/113/02
		the playing device used by the player.		
5.		ne or any game event outcome must	Compliant	
	_	affected by the effective bandwidth,	·	
	link util	isation, bit error rate or other		
		eristic of the communication channel		
		n the gaming system and the playing		
	device ι	used by the player.		
			1	1



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	1			
Remote Gaming Regulations	Rating	Comments		
Third Schedule - Regulation 25				
	6. The gaming system must be able to display for each game the following information on the current page or on a page directly accessible from the current page via a hyperlink:			
		page via a nyperiink: T		
a. the name of the game;	Compliant			
b. restrictions on play;	Compliant			
c. instructions on how to play, including a	*	Wallet functionality is not directly		
pay-table for all prizes and special		managed by the supplier.		
features;	0 1: .			
d. the player's current account balance;	Compliant			
e. unit and total bets permitted;	Compliant			
f. the rules of the game.	Not applicable	The scope of assessment is limited to		
		aspects directly managed by the		
All Consideration and the state of the state	No.	supplier.		
7. All financial reports produced by the gaming	Not applicable	The scope of assessment is limited to		
system must be congruent with gaming		aspects directly managed by the		
transaction reports and conversely:		supplier.		
Provided that all such reports shall be readily				
and freely available to the Authority.	Not andicable	The same of same out in limited to		
8. The gaming system must:	Not applicable	The scope of assessment is limited to		
a. be capable of producing monthly		aspects directly managed by the		
auditable and aggregate financial		supplier.		
statements of gaming transactions,				
and b. calculate accurately all taxation and	Not applicable	The scope of assessment is limited to		
other monies due to the Authority.	иот аррисавте	aspects directly managed by the		
other momes due to the Authority.		supplier.		
9. The gaming system must maintai	<u> </u>			
a. the identity of the player;	Not applicable	The scope of assessment is limited to		
a. the identity of the player,	пот аррисавле	aspects directly managed by the		
		supplier.		
b. the time the game began as recorded	Compliant	The recording of the results within the		
on the game's server;	Compliant	gambling system are not managed by		
on the game's server,		the supplier.		
c. the balance on the player's account	Not applicable	The scope of assessment is limited to		
at the start of the game;	Not applicable	aspects directly managed by the		
at the start of the game,		supplier.		
d. the stakes placed in the game (time	Compliant	The recording of the results within the		
stamped by the games server);	Compliant	gambling system are not managed by		
stamped by the games server),		the supplier.		
e. the game status (in progress,	Not applicable	The scope of assessment is limited to		
complete, etc.);	Not applicable	aspects directly managed by the		
complete, etc.,		supplier.		
f. the result of the game (time stamped	Compliant	The recoding of the results within the		
by the games server);	Compliant	gambling system and account		
by the games server),	1	Barrishing system and account		



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Remote Gai	ming Regulations	Rating	Comments	
	Third Schedule - Regulation 25 - Technical requirement for gaming system			
			functionality are not managed by the supplier.	
g.	the time the game ended as recorded by the games server;	Not applicable	The scope of assessment is limited to aspects directly managed by the supplier.	
h.	the amount won or lost by the player; and	Compliant	The recoding of the results within the gambling system and account functionality are not managed by the supplier.	
i.	the balance on the player's account at the end of the game.	Not applicable	The scope of assessment is limited to aspects directly managed by the supplier.	
	10. The gaming system must maintain	information about s	significant events as follows:	
a.	large wins;	Not applicable	The scope of assessment is limited to aspects directly managed by the supplier.	
b.	transfers of funds in excess of such amount as the Authority may from time to time direct by notice in writing to the operator;	Not applicable	The scope of assessment is limited to aspects directly managed by the supplier.	
C.	changes made by the operator to game parameters.	Not applicable	The scope of assessment is limited to aspects directly managed by the supplier.	
specifie	riations to any of the requirements and in this Schedule shall be submitted to hority for its approval by notice in	Not applicable	No variations identified for the product under certification.	