



ALDERNEY GAMBLING CONTROL COMMISSION

EVALUATION REPORT

FOR

THUNDERKICK (MALTA) LIMITED

RAVEN'S EYE

DESKTOP AND MOBILE (HTML5)

VERSION NUMBER: 1.0.8

CERTIFICATE NUMBER:
96589TKLALDM

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SECTION 1. GENERAL INFORMATION

Software Provider: Thunderkick (Malta) Limited
The Bastions Office No. 2
Emvin Cremonia Street
Floriana
FRN 1281
Malta

Product Name: Raven's Eye on Desktop and Mobile (HTML5)

Product Type: Casino Slot

eCOGRA Proposal Number: CGSTKL001

Applicable Technical Standards: Technical Standards and Guidelines for Internal Control Systems and Internet Gambling Systems, Version 4.1

Testing Laboratory: eGaming Compliance Services Limited, trading as 'eCOGRA'
2/F Berkeley Square House
Berkeley Square
London W1J 6BD
United Kingdom

Test Engineers: Paul Dendy, Chad Coetzee, Sikhumbuzo Mzobe

Supervisor: Craig Nichol

Request for Testing: 13 May 2019

Report Date: 14 June 2019

Report Number: 96589TKLALDM

In our opinion the game listed as tested in this report complies with the relevant sections of Technical Standards and Guidelines for Internal Control Systems and Internet Gambling Systems, Version 4.1, as described in Section 6 of this report.

eCOGRA hereby recommends that the game listed as tested in this report be approved for use in the Alderney Jurisdiction.

Gary Lupton-Smith



Technical Services Manager, eCOGRA

SECTION 2. INTRODUCTION

eCOGRA has been appointed by Thunderkick (Malta) Limited to evaluate and certify the following Casino Slot game for compliance with the relevant Technical Standards and Guidelines for Internal Control Systems and Internet Gambling Systems, Version 4.1, and to highlight any exceptions identified during testing.

The scope of testing (Section 6 below) is agreed in consultation with the client, according to the Request For Quotation for Testing Services issued on 21 September 2018.

- Raven's Eye (Game Version: 1.0.8)

This certification report highlights our key findings as a result of the evaluation conducted on Desktop and Mobile (HTML5), Platform Version: 4.11.4, a pre-production environment which is essentially the same as the live environment. The testing was conducted on the aforementioned platform established at Thunderkick (Malta) Limited during the period 16 May 2019 to 04 June 2019.

Please note that this is an initial certification conducted over Raven's Eye on Desktop and Mobile (HTML5) and therefore this game certificate does not supersede any previous certifications.

SECTION 3. GAMES DESCRIPTION

Raven's Eye (Version Number: 1.0.8)

Game Description:

Raven's Eye is a 4x5 video slot 30 fixed pay lines with Mystery symbols and a Bonus game with "Mystery Collect" feature.

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

SECTION 4. PERCENTAGE RETURN TO PLAYER ('RTP')

Game Name	Theoretical % RTP	eCOGRA % RTP Recalculation
Raven's Eye	96.13%	97.73%

The theoretical RTP percentage indicated in the table above is extracted from the game documentation as provided by Thunderkick (Malta) Limited. eCOGRA recalculated the RTP percentage by performing additional independent mathematical calculations on the output of simulation game data.

SECTION 5. SOFTWARE DETAILS

Details of the software tested during this evaluation are as follows:

Game Files

File Name / Identifier	Version Date	Version Number	SHA#1 Hash
gp-game-s1-g24-core-1.0.0-RELEASE.jar	2019-05-08	1.0.0	96d9e958a22f074ffcad99efe520af449391c109
gp-game-s1-g24	2019-05-08	1.0.0	c0ff323f1c58073867928aa37481dfac5a1d5281

Random Number Generator

File Name / Identifier	Version Date	Version Number	SHA#1 Hash
gp-rng-3.5.0-RELEASE.jar	N/A	3.5.0	f2dcd4e8ed46eb5653d99ff54f60c4e4047ad4ec
gp-rng-api-3.5.0-RELEASE.jar	N/A	3.5.0	ea01386be069745202580bd50c3de32c33f3553f

SECTION 6. REVIEW FINDINGS

The key findings of our review of the game for compliance with the relevant sections of the Technical Standards and Guidelines for Internal Control Systems and Internet Gambling Systems, Version 4.1, are as follows:

Technical Standards and Guidelines	Assessment	Comments
2.13 Jackpot Accounting	Not Applicable	Not in scope per client consultation.
3.1 Terms Governing Customer Accounts	Not Applicable	Not in scope per client consultation.
3.5 Customers at Risk	Not Applicable	Not in scope per client consultation.
3.6 Accepting Wagers	Compliant	3.6.1.(i) – Operator responsibility
3.8 Registers	Not Applicable	Not in scope per client consultation.
4.1 Hosting Premises	Not Applicable	Not in scope per client consultation.
4.2 Alderney Branding	Not Applicable	Not in scope per client consultation.
4.3 Random Number Generator (RNG) Requirements	Compliant	Thunderkick (Malta) Limited has had its RNG certified against Great Britain Remote Technical Standards: Refer Quinel RNG report: MDI_02-08_J16030078_RNG_rev.1_UK
4.4 Customer Game Session	Not Applicable	Not in scope per client consultation.
4.5 Malfunction	Compliant	4.5.1(ii)-(iv) – Operator responsibility
4.6 Foreign Business Associates	Not Applicable	Not in scope per client consultation.
4.7 eGambling Requirements	Compliant	4.7.1 (vii) – Operator responsibility
4.8 Game Design	Compliant	4.8.3, 4.8.4(iii) – 4.8.4(v) – Operator responsibility
4.9 Requirements for Games Against the House (not P2P)	Compliant	4.9.(ii), 4.9.(iv), 4.9.(vii), - Operator responsibility 4.9.1, 4.9.2 - Not Applicable, no multi-customer games are offered.
4.10 Game Artwork	Compliant	4.10.1 (f) – Not Applicable, no multi-customer games are offered.
4.11 Spinning Wheel (Reel) Requirements	Compliant	
4.12 Positioning, Size, Colour and Shape	Compliant	
4.13 Substitutes	Compliant	
4.14 Winning Patterns	Compliant	
4.15 Features	Compliant	
4.16 Keno and Bingo Artwork Requirements	Not Applicable	Not applicable to this slot game.
4.17 Card Game Artwork Requirements	Not Applicable	Not applicable to this slot game.
4.18 Gamble Option Artwork Standards	Not Applicable	Not applicable to this slot game.
4.19 Roulette	Not Applicable	Not applicable to this slot game.
4.20 Dice Games	Not Applicable	Not applicable to this slot game.
4.21 Simulated Wagering	Not Applicable	Not applicable to this slot game.
4.22 Scratch Ticket	Not Applicable	Not applicable to this slot game.
4.23 Video Poker	Not Applicable	Not applicable to this slot game.
4.24 Blackjack	Not Applicable	Not applicable to this slot game.

Technical Standards and Guidelines	Assessment	Comments
4.25 Live Gambling Studio Guidelines and Standards	Not Applicable	Not applicable to this slot game.
4.26 Event Based Wagering	Not Applicable	Not applicable to this slot game.
4.27 Other Games	Not Applicable	Not applicable to this slot game.
4.28 Peer to Peer (P2P) Games	Not Applicable	Not applicable to this slot game.
4.29 Jackpots and Promotional Jackpots	Not Applicable	Not applicable to this slot game.
5.1 System Operations	Not Applicable	Not in scope per client consultation.
5.2 Security	Not Applicable	Not in scope per client consultation.
5.3 Software Development, Testing, Maintenance and Approval	Not Applicable	Not in scope per client consultation.
5.4 Equipment	Not Applicable	Not in scope per client consultation.
5.5 Network	Not Applicable	Not in scope per client consultation.
5.7 Communications	Not Applicable	Not in scope per client consultation.
5.8 Database Information	Not Applicable	Not in scope per client consultation.
5.9 External Wagering Systems	Not Applicable	Not in scope per client consultation.