

This is a revised report of “RVS-MT-230613-01-GC-R1” issued on 13 June 2023. The RTP has been updated for the game Submarine Riches in this report.

Certification Report RS Reevo Services Ltd Game Audit Report – 14 Games

Report Identification RVS-MT-230613-01-GC-R2

Certification Laboratory



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Technical Standards used for testing Remote Gaming Regulations, 20 April 2005,
Legal Notice 176 of 2004 of the Lotteries and other
Games Act (ACT XXIV OF 2001) as amended by
Legal Notices 110 of 2006, 270 and 426 of 2007, 90 of
2011 and 131 of 2016.

Gaming Associates



1 Notations

1.1 Confidentiality

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This document, its themes, and ideas are strictly confidential and may not be used in any manner other than its expressed purpose, without the written permission of the author. The documents are for the intended client named in this report, also referred to as “the client” or “client”, and the applicable gaming jurisdiction mentioned in this document.

The documents are copyright.

1.2 Disclaimer

ga has reported on what was discovered throughout the assessment period of the client’s game(s) related to the technical scope of testing as per applicable jurisdictional requirements. Results are based on the client’s submission of information material, access to the testing environment and applicable testing is performed within a finite period.

Inherently there are limitations in performing compliance testing within a laboratory environment and accordingly **ga** has undertaken its best endeavours to ensure a thorough assessment is performed and a conclusion stated.



2 Administration

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2.2 Version

Version	Description	Date
V0.1	Initial draft - ZGUL	2023-06-07
V0.2	Review and update - WKAS	2023-06-08
V0.3	QA - UVAS	2023-06-09
V1.0	Final Report to RS Reevo	2023-06-13
V1.1	Revised report to RS Reevo - The RTP has been updated for the game Submarine Riches in this report.	2024-01-08

3 Executive Summary

3.1 Introduction

RS Reevo Services Ltd (RS Reevo) has requested Gaming Associates (ga) to test their game, 14 Games, against the compliance requirements of Malta.

ga has tested RS Reevo's game 14 Games against the Malta Gaming Authority (MGA) compliance requirements listed in Section 3.2 Scope of Testing. This report presents the results of testing performed by ga for the 14 Games game. Hashes of the game are listed in Annex A: SHA-1 Hashes.

3.2 Scope of Testing

The scope of testing is to verify compliance against the following requirements of the Gaming Regulations, 20 April 2005, Legal Notice 176 of 2004 of the Lotteries and other Games Act (ACT XXIV OF 2001) as amended by Legal Notices 110 of 2006, 270 and 426 of 2007, 90 of 2011 and 131 of 2016:

♣ Third Schedule Regulation 25: Technical requirement for gaming system.

This compliance evaluation does not include evaluation of the Random Number Generator (RNG).

3.3 Testing Limitations Due to the Test Environment

Since 14 Games has been tested in a test environment, the following MGA requirements could not be tested and need to be verified when the game is integrated with a gaming platform:

- ♣ 2. Both the gaming and financial transactions must be congruent and secure.
- ♣ 6 (b) - 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:-
(b) restrictions on play;
- ♣ 7. All financial reports produced by the gaming system must be congruent with gaming transaction reports and conversely: Provided that all such reports shall be readily and freely available to the Authority.
- ♣ 8. The gaming system must:- (a) be capable of producing monthly auditable and aggregate financial statements of gaming transactions, and (b) calculate accurately all taxation and other monies due to the Authority.
- ♣ 10. The gaming system must maintain information about significant events as follows:-
 - (a) large wins;
 - (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;
 - (c) changes made by the operator to game parameters.

3.4 Conclusions and Recommendations

RS Reevo's game 14 Games complies with the requirements of the Remote Gaming Regulations, 20 April 2005. However, some requirements, identified in Section 3.3 of this report, need to be verified when the game is integrated with a gaming platform.

ga recommends RS Reevo's game 14 Games to be approved for integration with gaming platforms already approved by the MGA.

4 Test Results

This section summarises the results of the tests performed on RS Reevo's game 14 Games. The tables in the following sub-sections provide the compliance status of the game against MGA requirements listed in [1]. Different values used in the "System Compliance" column are described as follows:

Compliant: The game complies with the requirement.

Does Not Comply: The game does not comply with the requirement.

Acknowledged: The requirement is only a statement or information.

N/A: The requirement is not applicable to the game.

Out of scope: The requirement cannot be evaluated at this stage due to the current scope of testing or limitation of the test environment.

4.1 Third Schedule Regulation 25: Technical Requirement for Gaming System

Malta Requirements	System Compliance	GA Comments
Third Schedule		
Regulation 25: Technical requirement for gaming system		
1. The gaming system must:		
(a) faithfully follow the game rules published by the operator; and	Compliant	The game instructions are available, and the game operates and interacts with the players in accordance with the game instructions.
(b) Provide over time no more than the expected house advantage to the operator.	Compliant	The game instructions are available, and the game operates and interacts with the players in accordance with the game instructions.
2. Both the gaming and financial transactions must be congruent and secure.	Out of Scope	The scope of the evaluation is limited to the game design, gameplay, and fairness. Evaluation of financial transactions is out of scope.
3. The gaming system must satisfy the following criteria for randomness, following Schneier:-	Compliant	Refer to RNG Report: RVS-MT-230203-01-RC-R1 RS Reevo Services Ltd RNG Evaluation Report.pdf
(a) the data must be randomly generated, passing appropriate statistical tests of randomness;		
(b) the data must be unpredictable, i.e. it must be computationally infeasible to predict what the next number will be, given complete knowledge of the algorithm or hardware generating the sequence, and all previously generated numbers;		
(c) the series cannot be reliably reproduced, i.e. if the sequence generator is activated again with the same input (as exactly as is reasonably possible) it will produce two completely unrelated random sequences.		
4. The outcome of any game event, and the return to the player, must be independent of the CPU, memory, disk or other components used in the playing device used by the player.	Compliant	The outcomes of the game are independent of the computer or device used by the player.
5. The game or any game event outcome must not be affected by the effective bandwidth, link utilisation, bit error rate or other characteristic of the communication channel between the gaming system and the playing device used by the player.	Compliant	The outcomes of the game are not affected by the bandwidth, link utilization, bit error rate, etc.
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:-	Compliant	
(a) the name of the game;	Compliant	The name of the game is displayed on the betting page.
(b) restrictions on play;	Compliant	
(c) instructions on how to play, including a pay-table for all prizes and special features;	Compliant	Instructions on how to play, including a pay table for all prizes and special features, are provided.
(d) the player's current account balance;	Compliant	The player's current account balance is displayed.
(e) unit and total bets permitted;	Compliant	The unit bet and total bets are displayed on the betting page.

Malta Requirements	System Compliance	GA Comments
(f) The rules of the game.	Compliant	The rules of the game are accessible from the game.
7. All financial reports produced by the gaming system must be congruent with gaming transaction reports and conversely: Provided that all such reports shall be readily and freely available to the Authority.	Out of Scope	The scope of the evaluation is limited to the game design, gameplay, and fairness. Evaluation of game management / operational procedures and controls is out of scope.
8. The gaming system must:-		
(a) be capable of producing monthly auditable and aggregate financial statements of gaming transactions, and	Out of Scope	The scope of evaluation is limited to the game design, game play, and fairness. Evaluation of financial statements is out of scope.
(b) Calculate accurately all taxation and other monies due to the Authority.	Out of Scope	The scope of the evaluation is limited to game design, gameplay, and fairness. Evaluation of financial statements is out of scope.
9. The gaming system must maintain information about all games played, including:-	Acknowledged	
(a) the identity of the player;	N/A	
(b) the time the game began as recorded on the games server;	Compliant	The start time is provided to the player.
(c) the balance on the player's account at the start of the game;	Compliant	
(d) the stakes placed in the game (time stamped by the games server);	Compliant	
(e) The game status (in progress, complete, etc.);	Compliant	The game status is provided.
(f) the result of the game (time stamped by the games server);	Compliant	The timestamp is provided to the player.
(g) the time the game ended as recorded by the games server;	Compliant	The end time is provided to the player.
(h) the amount won or lost by the player; and	Compliant	
(i) The balance on the player's account at the end of the game.	Compliant	The ending balance is available.
10. The gaming system must maintain information about significant events as follows:-	Out of Scope	The scope of the evaluation is limited to the game design, gameplay, and fairness. Evaluation of game management / operational procedures and controls is out of scope.
(a) large wins;		
(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;		
(c) Changes made by the operator to game parameters.		
11. Any variations to any of the requirements specified in this Schedule shall be submitted to the Authority for its approval by notice in writing.	Acknowledged	

4.2 Return to Player

The statistical return to player (RTP) for RS Reevo's game 14 Games are:

No:	Game Name	Game Version	Return to Player (RTP%)
1.	Football Ultimate Champions' King	1.2.0	95.52% - 96.44%
2.	Super Goals & Reels	1.8.2	95.40%
3.	Santa's Gifts	1.4.0	95.33%
4.	Wolf Wild	1.9.0	95.36%
5.	Crazy Crocs	1.2.1	95.50%
6.	Mardi Gras Reels	1.6.0	95.33%
7.	Royal Bets	1.2.0	95.52% - 96.44%
8.	Mayan Magic Gold	1.3.1	95.62%
9.	Treasures God	1.7.1	95.44%
10.	Ruby Treasures	1.5.17	95.52% - 96.44%
11.	Le Bo\$\$u: Richesse Royale	1.7.9	95.53%
12.	Eggs with Legs	1.5.0	95.33%
13.	Blue Beard's Chest	1.4.2	95.44%
14.	Submarine Riches	1.4.1	95.58%

5 References

1. *Remote Gaming Regulations 2004, Legal Notice 176 of 2004 of the Lotteries and other Games Act (ACT XXIV OF 2001), 20 April 2005, as amended by Legal Notices 110 of 2006, 270 and 426 of 2007, 90 of 2011 and 131 of 2016.*
2. *RNG Certificate “RVS-MT-230203-01-RC-R1 RS Reevo Services Ltd RNG Evaluation Report.pdf”, version 1.0, dated 2023-02-03.*
3. *Game Description “EN - Football Ultimate Champions_ King - GameRules_PayTable.docx”, no version, no date.*
4. *Game Description “EN - Football Ultimate Champions_ King - GameRules_PayTable.pdf”, no version, no date.*
5. *Game “Football Ultimate Champions_ King - Game Info Sheet.pdf”*
6. *Maths spread sheet “casinochicvip_kb_96_main.xls” no version, no date.*
7. *Maths spread sheet “casinochicvip_main_96_main.xls” no version, no date.*
8. *Game Description “EN - Super Goals _ Reels - GameRules_PayTable.docx”, no version, no date.*
9. *Game Description “EN - Super Goals _ Reels - GameRules_PayTable.pdf”, no version, no date.*
10. *Game “Super Goals _ Reels - Game Info Sheet.pdf”*
11. *Maths spread sheet “diamondluck_96_main.xls” no version, no date.*
12. *Game Description “EN - Santa_s Gifts - GameRules_PayTable.docx”, no version, no date.*
13. *Game Description “EN - Santa_s Gifts - GameRules_PayTable.pdf”, no version, no date.*
14. *Game “Santa_s Gifts - Game Info Sheet.pdf”*
15. *Maths spread sheet “sugarfruitfrenzy_96_main.xls” no version, no date.*
16. *Game Description “EN - Wolf Wild - GameRules_PayTable.docx”, no version, no date.*
17. *Game Description “EN - Wolf Wild - GameRules_PayTable.pdf”, no version, no date.*
18. *Game “Wolf Wild - Game Info Sheet.pdf”*
19. *Maths spread sheet “dataWildWolf v.2.1.1.xlsm” no version, no date.*
20. *Maths spread sheet “wolfwild_96_main.xls” no version, no date.*
21. *Game Description “EN - Crazy Crocs - GameRules_PayTable.docx”, no version, no date.*
22. *Game Description “EN - Crazy Crocs - GameRules_PayTable.pdf”, no version, no date.*
23. *Game “Crazy Crocs - Game Info Sheet.pdf”*
24. *Maths spread sheet “crazycrocs_96_main.xls” no version, no date.*
25. *Maths spread sheet “dataCrazyCrocs v.3.2 S.xlsm” no version, no date.*
26. *Game Description “EN - Mardi Gras Reels - GameRules_PayTable.docx”, no version, no date.*
27. *Game Description “EN - Mardi Gras Reels - GameRules_PayTable.pdf”, no version, no date.*
28. *Game “Mardi Gras Reels - GameInfoSheet.pdf”*
29. *Maths spread sheet “dataElectroreels v.3 new lines online.xlsm” no version, no date.*
30. *Maths spread sheet “slt_5l_er_noprogc_v3_main.xls” no version, no date.*
31. *Game Description “EN - Royal Bets - GameRules_PayTable.docx”, no version, no date.*
32. *Game Description “EN - Royal Bets - GameRules_PayTable.pdf”, no version, no date.*
33. *Game “Royal Bets - Game Info Sheet.pdf”*



34. Maths spread sheet "casinochicvip_kb_96_main.xls" no version, no date.
35. Maths spread sheet "casinochicvip_main_96_main.xls" no version, no date.
36. Game Description "EN - Mayan Magic Gold - GameRules_PayTable.docx", no version, no date.
37. Game Description "EN - Mayan Magic Gold - GameRules_PayTable.pdf", no version, no date.
38. Game "Mayan Magic Gold - Game Info Sheet.pdf"
39. Maths spread sheet "mayanmagic_96_5B.xls" no version, no date.
40. Game Description "EN - Treasures God - GameRules_PayTable.docx", no version, no date.
41. Game Description "EN - Treasures God - GameRules_PayTable.pdf", no version, no date.
42. Game "Treasures God - Game Info Sheet.pdf"
43. Maths spread sheet "snowking_96_main.xls" no version, no date.
44. Game Description "EN - Ruby Treasures - GameRules_PayTable.docx", no version, no date.
45. Game Description "EN - Ruby Treasures - GameRules_PayTable.pdf", no version, no date.
46. Game "Ruby Treasures - Game Info Sheet.pdf"
47. Maths spread sheet "casinochicvip_kb_96_main.xls" no version, no date.
48. Maths spread sheet "casinochicvip_main_96_main.xls" no version, no date.
49. Game Description "EN - Le Bo\$\$u Richesse Royalles - GameRules_PayTable.docx", no version, no date.
50. Game Description "EN - Le Bo\$\$u Richesse Royalles - GameRules_PayTable.pdf", no version, no date.
51. Game "Le Bo\$\$u Richesse Royale - Game Info Sheet.pdf"
52. Maths spread sheet "leBossu v6.xlsx" no version, no date.
53. Maths spread sheet "leBossu_v6_5B_1.xls" no version, no date.
54. Maths spread sheet "leBossu_v6_5B_2.xls" no version, no date.
55. Game Description "EN - Eggs With Legs - GameRules_PayTable.docx", no version, no date.
56. Game Description "EN - Eggs With Legs - GameRules_PayTable.pdf", no version, no date.
57. Game "Eggs with Legs - GameInfoSheet.pdf"
58. Maths spread sheet "dataElectroreels v.3 new lines online.xlsm" no version, no date.
59. Maths spread sheet "slt_5l_er_noprogc_v3_main.xls" no version, no date.
60. Game Description "EN - Blue Beards Chest - GameRules_PayTable.docx", no version, no date.
61. Game Description "EN - Blue Beards Chest - GameRules_PayTable.pdf", no version, no date.
62. Game "Blue Beard_s Chest - Game Info Sheet.pdf"
63. Maths spread sheet "snowking_96_main.xls" no version, no date.
64. Game Description "EN - Submarine Riches - GameRules_PayTable.docx", no version, no date.
65. Game Description "EN - Submarine Riches - GameRules_PayTable.pdf", no version, no date.
66. Game "Submarine Riches - GameInfoSheet.pdf"
67. Maths spread sheet "dataSubmarineRiches v.2.4 Online.xlsm" no version, no date.
68. Maths spread sheet "submarineriches_96_main.xls" no version, no date.



Annex A : SHA-1 Hashes

The following hashes of critical components for the product tested are recorded.

Name	Critical File Name	SHA-1 hashes
Football Ultimate Champions' King	casinochicvip_main_96.js	a549df7ddf0638ed0570242795505b22015318d5
	casinochicvip_kb_96.js	5827fdef3f30c23cc9fd9ee150f90c0e27921a08
Super Goals & Reels	diamondluck_96.js	08c74c68a33fa02f4a2591e5362b9839cc64f6fa
Santa's Gifts	sugarfruitfrenzy_96.js	c2e4798dfbb87a882ca78343b0eaa86039a5c310
Wolf Wild	wolfwild_96.js	f3beb49bd27bbda4c1fcf995b3eb63309ac08712
Crazy Crocs	crazycrocs_96.js	f695ea916b71ae747fa2ae4254407b4fc4e9529b
Mardi Gras Reels	electroreels_96.js	9e1f9a57e583933f66cea3d8b7676de804a7821b
Royal Bets	casinochicvip_main_96.js	a549df7ddf0638ed0570242795505b22015318d5
	casinochicvip_kb_96.js	5827fdef3f30c23cc9fd9ee150f90c0e27921a08
Mayan Magic Gold	mayanmagicgold_96.js	f35aa0e2b9921dc6a17cc875bd057030f5ccf455
Treasures God	snowking_96.js	d33adff2a08c30655b3078ba7ed78d25b8b9e7c2
Ruby Treasures	casinochicvip_main_96.js	a549df7ddf0638ed0570242795505b22015318d5
	casinochicvip_kb_96.js	5827fdef3f30c23cc9fd9ee150f90c0e27921a08
Le Bo\$\$u: Richesse Royale	lebossurichesseroyale_96.js	3899fc5afb447a7ba8762e602ad06fddf76ba0f1
Eggs with Legs	electroreels_96.js	9e1f9a57e583933f66cea3d8b7676de804a7821b
Blue Beard's Chest	snowking_96.js	d33adff2a08c30655b3078ba7ed78d25b8b9e7c2
Submarine Riches	submarineriches_96.js	aeb3039f7d124d7243b643e40d21bec85a59b182
RNG	engine.js	e4d91311dfbf0be5767d3e1852937f67dc618caf
	slotgame.js	28f80ac8990c00af7d68daf2c0897a895ae99efe
	rng.js	cf7630b8871c57663a27c312f8117b419114fad

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